

export to over 15 countries  
flooring mortars  
wide range  
RODACAL BEYEM  
tile fixing and grouting  
paints  
R&D&i  
ceramics  
renders  
facade coatings  
specials mortars  
REHABILITATION  
FACADES  
COATINGS  
MASONRY MORTARS  
sustainability  
WATERPROOFING MORTAR  
INNOVATION  
QUALITY  
growth  
additives  
primers  
insulation system (ETICs)  
concrete repair







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## ■ COMPANY

**Rodacal Beyem** is dedicated, for over 30 years, to the manufacture and distribution of industrial mortars and other solutions for the construction industry. The company was founded in 1986 in La Roda (Albacete). The growth of the demand of the sector, together with the impetus of the company's continued improvement, which has allowed for the opening of branch offices throughout Spain. Currently, Rodacal Beyem has branch offices in Jerez and Palma de Mallorca and two production centres in La Roda (Albacete) and La Muela (Zaragoza) and exports to over 15 countries. Rodacal Beyem provides all types of building solutions for construction. The wide range of products includes solutions for ceramic grouting and installation, masonry mortars, façade claddings, lime-based mortars for refurbishment/renovation, floors, insulation systems, repair mortar and waterproofing solutions, special mortars, primers, additives, auxiliary products and paints. Assisting clients to succeed, providing quality and useful innovation to our products. This, together with a personalised commercial activity, make Rodacal Beyem a reference benchmark in the sector.

## ■ CUSTOMER SUPPORT

**Rodacal Beyem** has an experienced technical sales team which provides the client with specialist advice. Solving any queries as regards the use of the products, as well as the constructive solutions to be adopted in each case. In order to facilitate a prompt response to these enquiries, we have a client contact telephone number and email address available so that clients may make the most frequent enquiries and to solve any requirement in a personalised manner.

Customer support contact  
0034 967 44 00 18  
sat@rodacal.com

Rodacal Beyem possesses comprehensive technical documentation in relation to its products in order to provide its clients relevant advice. This information can be consulted at [www.rodacal.com](http://www.rodacal.com)

## ■ QUALITY AND INNOVATION

Product quality is one of our most important commitments **ISO 9001 AENOR to IQNET** Standard Certifications endorse the success of the quality system implemented in the company for the manufacture of our products intended for the construction trades.

Rodacal Beyem has a team dedicated exclusively to **R&D&i** which day in day out continuously strives to obtain new formulas that improve the properties and features, minimise the environmental impact, reduce costs and allow for a simpler application. With the intention of integrating our clients in the development process, mindful about their requirements, which guarantees the success in the identification of new materials, that have numerous certifications and approvals. Products conceived and designed for the people who design, for those who manufacture, for those who construct and for those who live in the buildings. Rodacal Beyem is the first industrial mortar manufacturer to have obtained the **UNE 166002** Standard Certification on **R&D&i Management System** requirements.







# Tile Fixing and Grouting



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## TILE FIXING AND GROUTING

### ■ Adhesives: EN 12004 Classification

Cementitious adhesives (C).  
Dispersion adhesives (D).  
Reaction Resin Adhesives (R).

### ■ Characteristics

**Fundamental Characteristics:** These are the characteristics which each adhesive must comply within its group, C, D or R.  
For normal setting cementitious adhesives (C):

Characteristics	Requirement
Initial tensile adhesion strength	$\geq 0,5$ MPa
Tensile adhesion strength after water immersion	$\geq 0,5$ MPa
Tensile adhesion strength after heat ageing	$\geq 0,5$ MPa
Tensile adhesion strength after freeze/thaw cycles	$\geq 0,5$ MPa
Open time: Tensile Adhesion Strength after 20 min	$\geq 0,5$ MPa

These adhesives meet category 1.

For fast setting (F) cementitious (C) adhesives:

Characteristics	Requirement
Early Tensile Adhesion Strength after 6 hours	$\geq 0,5$ MPa
Open time: Tensile Adhesion Strength after 10 min	$\geq 0,5$ MPa
The other properties as in the preceding table	

**Optional Characteristics:** These are divided into two groups:

- **Additional characteristics:** For conditions of use where higher values of behaviour are required (higher values of the fundamental characteristics).

Characteristics	Requirement
Initial tensile adhesion strength	$\geq 1,0$ MPa
Tensile adhesion strength after water immersion	$\geq 1,0$ MPa
Tensile adhesion strength after heat ageing	$\geq 1,0$ MPa
Tensile adhesion strength after freeze/thaw cycles	$\geq 1,0$ MPa

These adhesives meet category 2.

- **Special characteristics:** Are those which offer further information as regards the general characteristics of the adhesive.

Characteristics	Requirement
Slip (T)	$\leq 0,5$ mm
Extended open time : Tensile Adhesion Strength after 30 min.	$\geq 0,5$ MPa
Deformable adhesive (S1)	$\geq 2,5$ mm y $< 5$ mm
Highly deformable adhesive (S2)	$\geq 5$ mm

### ■ Factors for the application

#### Substrate

Lay-flat property and regularity of the surface.  
Size of the coated surface.  
Porosity and capillarity.  
Rugosity.  
Cleanliness.  
Presence of collapsed or decaying surfaces.  
Substrate moisture content.  
Incompatible installation surfaces.

#### Ceramic floor tiling

Ceramic tiles are defined as thin slabs generally used for the tiling of floors and walls.

These are products obtained from natural clays and other mineral components, sometimes with the addition of with additives of a different nature, which following a modelling process, are subjected to drying operations, application of glazes and decorative effects, as well as other treatments, for finally, leading to one or several baking processes that result in the final product.

Glazed tiles, unlike unglazed, are given a vitrifiable coating prior to baking or between both baking applications.

The basic classification of ceramic tiles takes into account the method used for its shaping (extruded "A" or dry pressed "B") and the water absorption "E".

Classification of ceramic tiles with respect to water absorption and shaping				
	Water absorption			
Shaping	Group Ia: Very low absorption ( $E < 0,5\%$ )  Group Ib: Low absorption ( $0,5\% < E < 3\%$ )	Group IIa: Medium-low water absorption $3\% < E < 6\%$	Group IIb: Medium-high water absorption $6\% < E < 10\%$	Group III: High water absorption $E < 10\%$
A: Extruded tiles	Group Ala Group Alb	Group Alla	Group Allb	Group Alll
B: Dry-pressed tiles	Group Bla Group Bl	Group Blla	Group Bllb	Group Blll

#### Application system

**Thin layer:** This is the most advanced installation technique that best adapts to the current ceramic coatings and to the different substrates and surfaces commonly found on the jobsite. This technique provides high adhesion and a long adjustment and rectification time. In addition, it provides an optimal result for low absorption tiles. In general, the thin layer is obtained in thicknesses of not less than 5 mm and not more than 15 mm.

The application of the adhesive in thin layer can be done by simple or by double spreading:

Simple spreading: the adhesive is spread over a part of the laying surface and then combed with the specified notched trowel.

Double spreading: the adhesive is spread on the back of the tile and on the substrate surface, combing with the specified notched trowel. By means of this technique, the wetting and the quality of the contact with the adhesive is improved, improving also the adhesion remarkably. In general, the use of this technique is recommended in exterior situations, for formats larger than 900 cm<sup>2</sup>, in flooring for commercial and/or industrial use, low thickness ceramic tiles, underfloor heating, tiles with reliefs on the back that make it difficult the contact with the adhesive and in case of use of leveling systems in the execution of tiling on walls and floors.

### Tile Grouts

Expansion and contraction joints.

Structural joints.

Perimeter joints.

Joints between ceramic tiles:

1,5-3,0 mm	Interiors. Stable substrates. Tiles of good dimensional quality.
3,0- 5,0 mm	Interiors. Stable substrates. Large format tiles.
≥ 5,0 mm	Exteriors. Interiors with tiles without dimensional regularity.

Tile joints between tiles are the natural separation between ceramic tiles. They fulfill a double function:

Aesthetic: Enhances the beauty of ceramic tiles depending on the chosen color and conaffect with the tile and corrects the gauge difference between tiles.

Mechanic: Allows the evaporation of the water of the adhesives in those tiles of low absorption, absorbs the efforts generated by the instability of the supports and allows the repair of individual tiles and vapour diffusion.

### - Tile Grouts. EN 13888 Classification

Cementitious Grouts (CG).

Reaction Resin Grouts (RG).

### - Classes. Characteristics according to designation

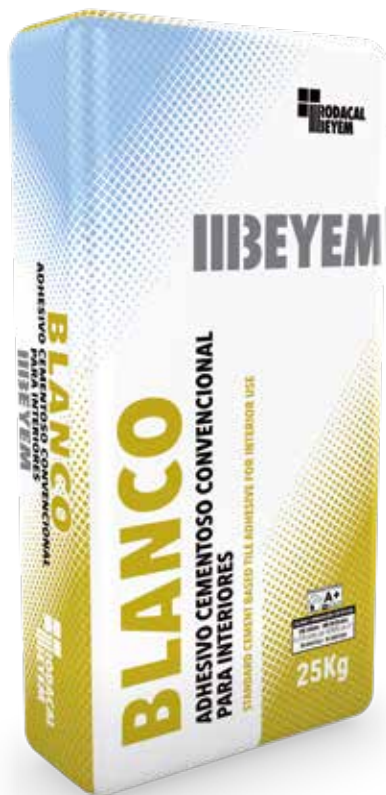
CG	Cementitious Grouts
RG	Reaction Resin Grouts

For cementitious grouting materials there are different classes, 1 (normal) or 2 (with additional characteristics)

CG1	Normal cementitious grout	
CG2 A	Cementitious grout with improved characteristics: high abrasion resistance	≤ 1000 mm <sup>3</sup>
CG2 W	Cementitious grout with improved characteristics: reduced water absorption	30 min ≤ 2g 240 min ≤ 5g
CG2 AW	Cementitious grout with improved characteristics: high abrasion resistance and reduced water absorption	≤ 1000 mm <sup>3</sup> 30 min ≤ 2g 240 min ≤ 5g

# BEYEM BLANCO

STANDARD CEMENT  
BASED TILE ADHESIVE FOR INTERIOR USE



EN 12004



Indoor  
Environment Quality

## ABOUT THIS PRODUCT

BEYEM BLANCO is a standard cement based tile adhesive, formulated with white cement, selected aggregates and special additives to improve workability and adhesion.

## USE

Laying of ceramic tiles of medium/high absorption in interior walls and floors. Especially suitable for laying ceramic tiles of small and medium format and IIb / III group.

## BENEFITS

- Great plasticity
- High water retentivity.
- High tensile adhesion strength and mechanical strength.
- Long open time. Allows adjustment of tiles.

## PACKAGING

BEYEM BLANCO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1380 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0-800 μm
Mixing water %	± 22%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Annex ZA EN 12004
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

More info:





# BEYEM GRIS

STANDARD CEMENT  
BASED TILE ADHESIVE FOR INTERIOR USE

Tile Fixing  
and Grouting



EN 12004



Indoor  
Environment Quality

## ABOUT THIS PRODUCT

BEYEM GRIS is a standard cement based tile adhesive, formulated with grey cement, selected aggregates and special additives to improve workability and adhesion.

## USE

Laying of ceramic tiles of medium/high absorption in interior walls and floors. Especially suitable for laying ceramic tiles of small and medium format and I Ib / III group.

## BENEFITS

- Great plasticity.
- High water retentivity.
- High tensile adhesion strength and mechanical strength.
- Long open time. Allows adjustment of tiles.

## PACKAGING

BEYEM GRIS is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

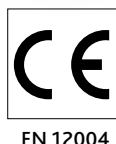
Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1380 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0-800 μm
Mixing water %	± 22%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Annex ZA EN 12004
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

More info:



# BEYEM FIR - B

ENHANCED CEMENT  
BASED TILE ADHESIVE FOR INTERIOR USE



## ABOUT THIS PRODUCT

BEYEM FIR BLANCO is an enhanced cement based tile adhesive for interior use, formulated with white cement, selected aggregates and special additives to improve workability and adhesion. No vertical slip. Allows adjustment of tiles. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of ceramic tiles of medium/high absorption in interior walls and floors. Especially suitable for laying ceramic tiles of small and medium format and IIb / III group.

## BENEFITS

- Great plasticity
- High water retentivity. Highly thixotropic.
- High tensile adhesion strength and mechanical strength.
- Long open time. Allows adjustment of tiles.
- No vertical slip.
- Very low VOCs emissions.

## PACKAGING

BEYEM FIR BLANCO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1270 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 29%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Annex ZA EN 12004
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

More info:



# BEYEM FIR - G

ENHANCED CEMENT  
BASED TILE ADHESIVE FOR INTERIOR USE

Tile Fixing  
and Grouting



## ABOUT THIS PRODUCT

BEYEM FIR GRIS is an enhanced cement based tile adhesive for interior use, formulated with grey cement, selected aggregates and special additives to improve workability and adhesion. No vertical slip. Allows adjustment of tiles. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of ceramic tiles of medium/high absorption in interior walls and floors. Especially suitable for laying ceramic tiles of small and medium format and IIb / III group.

## BENEFITS

- Great plasticity
- High water retentivity. Highly thixotropic.
- High tensile adhesion strength and mechanical strength.
- Long open time. Allows adjustment of tiles.
- No vertical slip.
- Very low VOCs emissions.

## PACKAGING

BEYEM FIR GRIS is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1270 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 29%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Annex ZA EN 12004
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

More info:



# BEYEM FIR YESO

ENHANCED CEMENT BASED TILE ADHESIVE  
FOR INTERIOR USE ON PLASTER SUBSTRATES



## ABOUT THIS PRODUCT

BEYEM FIR YESO is an enhanced cement based tile adhesive, formulated with white cement, selected aggregates and special additives to improve workability and adhesion. No vertical slip. Allows adjustment of tiles. BEYEM FIR YESO is formulated with special additives that prevent the formation of expansive salts by reaction of calcium sulfate of gypsum substrates with cement.

## USE

Laying of ceramic tiles of medium/high absorption on plaster substrates in interior walls and floors. Especially suitable for laying ceramic tiles of small and medium format and IIb / III group.

## BENEFITS

- Great plasticity.
- High water retentivity. Highly thixotropic.
- High tensile adhesion strength and mechanical strength.
- Long open time. Allows adjustment of tiles.
- No vertical slip.

## PACKAGING

BEYEM FIR YESO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1340 Kg/m <sup>3</sup>
Density of the mix	≈ 1630 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 25%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Annex ZA EN 12004
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

More info:

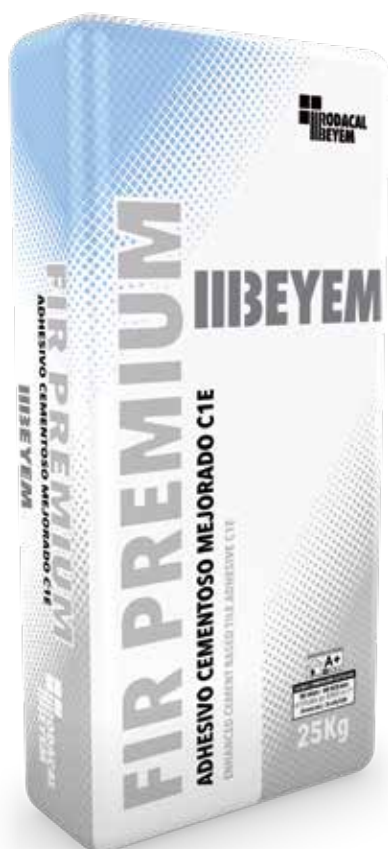




# BEYEM FIR PREMIUM

ENHANCED CEMENT  
BASED TILE ADHESIVE (C1E)

Tile Fixing  
and Grouting



## ABOUT THIS PRODUCT

BEYEM FIR PREMIUM is an enhanced cement based tile adhesive (C1E), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. No vertical slip. Allows adjustment of tiles.

Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of small and medium ceramic tiles of medium and high absorption in interior walls and interior and exterior floors.

## BENEFITS

- High resistance to water and heat.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- High tensile adhesion strength.
- No vertical slip.
- Very low VOCs emissions.

## PACKAGING

BEYEM FIR PREMIUM is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1300 Kg/m <sup>3</sup>
Density of the mix	≈ 1660 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 27%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	C1E
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 0,5 N/mm <sup>2</sup>
Open time	30 min
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>



EN 12004  
C1E



Indoor  
Environment Quality

More info:



# BEYEM SUPER

HIGH PERFORMANCE CEMENT  
BASED TILE ADHESIVE (C1TE)



EN 12004  
C1TE



Indoor  
Environment Quality

More info:



## ABOUT THIS PRODUCT

BEYEM SUPER is a high performance cement based tile adhesive (C1TE), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. No vertical slip. Allows adjustment of tiles.

Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of ceramic tiles of medium and high absorption in interior walls and interior and exterior floors. Laying of small and medium porcelain tiles in interior walls and floors. Suitable for laying in pools.

## BENEFITS

- High resistance to water and heat.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- High tensile adhesion strength.
- No vertical slip.
- Very low VOCs emissions.

## PACKAGING

BEYEM SUPER is packed 25 kg plastic lined paper bags.

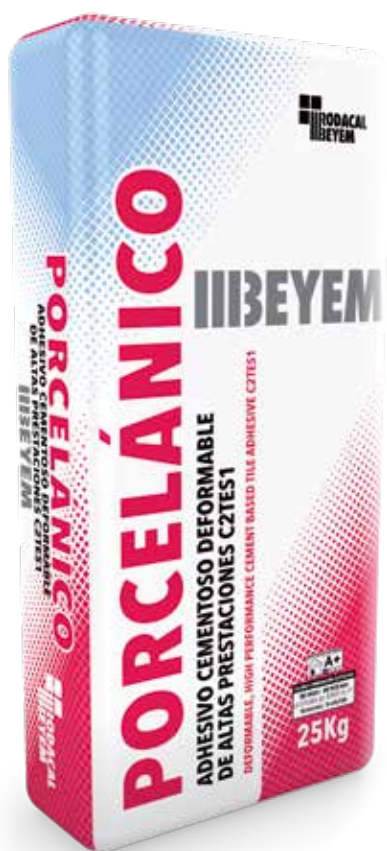
## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1300 Kg/m <sup>3</sup>
Density of the mix	≈ 1730 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 28%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≥ 3Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	C1TE
Initial tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 0,5 N/mm <sup>2</sup>
Open time	30 min
Slip	≤ 0,5 mm
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

# BEYEM PORCELÁNICO

DEFORMABLE, HIGH PERFORMANCE CEMENT  
BASED TILE ADHESIVE (C2TES1), FOR FIXING PORCELAIN TILES

Tile Fixing  
and Grouting



EN 12004  
C2TES1



Indoor  
Environment Quality

More info:



## ABOUT THIS PRODUCT

BEYEM PORCELÁNICO is a high performance cement based tile adhesive (C2TES1), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Deformable. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles.

Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of ceramic tiles of low/medium/high absorption in interior walls and interior and exterior floors. Laying of ceramic tiles of medium/high absorption in exteriors walls. Suitable for laying marble and natural stone in interior and exterior floors.

## BENEFITS

- High resistance to water and thermal shocks.
- High deformability.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- High tensile adhesion strength.
- No vertical slip.
- Very low VOCs emissions.

## PACKAGING

BEYEM PORCELÁNICO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1280 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 29%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≈ 3,5 Kg/m <sup>2</sup> (single spread technique) ≈ 5,0 Kg/m <sup>2</sup> (double spread technique)
Tariff code	3824.50.90.00
Final performances	
Type	C2TES1
Initial tensile adhesion strength	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm <sup>2</sup>
Open time	30 min
Slip	≤ 0,5 mm
Transverse deformation	≥ 2,5 mm
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>

# BEYEM FLEX

DEFORMABLE, HIGH PERFORMANCE CEMENT BASED TILE ADHESIVE (C2TES1),  
FOR FIXING LARGE FORMATS AND TILING ON FACADES



EN 12004  
C2TES1



Indoor  
Environment Quality

More info:



## ABOUT THIS PRODUCT

BEYEM FLEX is a high performance cement based tile adhesive (C2TES1), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Deformable. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles, large formats and facade tiling. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Laying of ceramic tiles of low/medium/high absorption in interior and exterior situations to walls and floors. Especially suitable for laying low absorption ceramic tiles (porcelain, marble, natural stone...) in exterior floors and walls. Ideal for underfloor heating or under tile warming.

## BENEFITS

- High resistance to water and thermal shocks.
- High deformability.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- High tensile bond strengths. More durability.
- No vertical slip.
- Especially suitable for fixing large formats, industrial and commercial applications (heavy traffic...) and underfloor heating or undertile warming.
- Very low VOCs emissions.

## PACKAGING

BEYEM FLEX is packed 25 kg plastic lined paper bags.

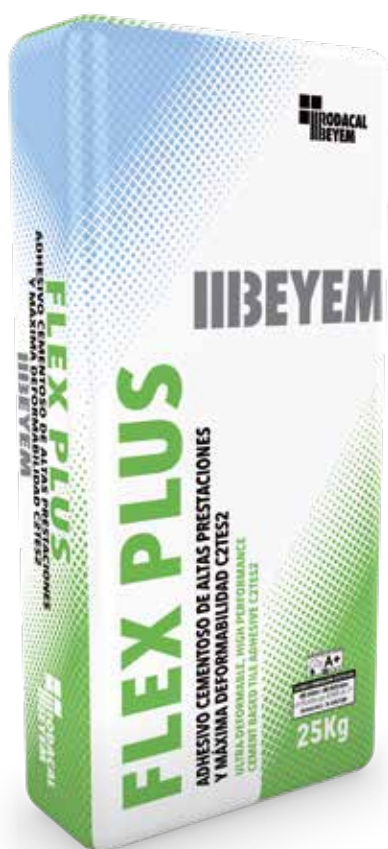
## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1220 Kg/m <sup>3</sup>
Density of the mix	≈ 1650 Kg/m <sup>3</sup>
Grading	0-600 µm
Mixing water %	± 31%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≈ 3,5 Kg/m <sup>2</sup> (single spread technique) ≈ 5,0 Kg/m <sup>2</sup> (double spread technique)
Tariff code	3824.50.90.00
Final performances	
Type	C2TES1
Initial tensile adhesion strength	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm <sup>2</sup>
Open time	30 min
Slip	≤ 0,5 mm
Transverse deformation	≥ 2,5 mm
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>



# BEYEM FLEX PLUS

ULTRA-DEFORMABLE, HIGH PERFORMANCE CEMENT BASED TILE ADHESIVE (C2TES2),  
FOR FIXING LARGE FORMATS AND TILING ON FACADES



EN 12004  
C2TES2



Indoor  
Environment Quality

More info:



## ■ ABOUT THIS PRODUCT

BEYEM FLEX PLUS is a high performance cement based tile adhesive (C2TES2), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Ultra-deformable. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles, large formats and facade tiling. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## ■ USE

Laying of ceramic tiles of low/medium/high absorption in interior and exterior situations to walls and floors. Especially suitable for laying low absorption ceramic tiles (porcelain, marble, natural stone...) in exterior floors and walls. Ideal for underfloor heating or under tile warming and industrial and commercial applications (heavy traffic...) on floors.

## ■ BENEFITS

- High resistance to water and thermal shocks.
- Maximum deformability.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- No vertical slip.
- Easy workable. Highly thixotropic.
- High tensile bond strengths. More durability.
- Especially suitable for fixing large formats, industrial and commercial applications (heavy traffic...) and underfloor heating or undertile warming.
- Very low VOCs emissions.

## ■ PACKAGING

BEYEM FLEX PLUS is packed 25 kg plastic lined paper bags.

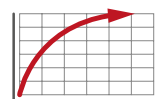
## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1150 Kg/m <sup>3</sup>
Density of the mix	≈ 1600 Kg/m <sup>3</sup>
Grading	0-600 µm
Mixing water %	± 31%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≈ 3,5 Kg/m <sup>2</sup> (single spread technique) ≈ 5,0 Kg/m <sup>2</sup> (double spread technique)
Tariff code	3824.50.90.00
Final performances	
Type	C2TES2
Initial tensile adhesion strength	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm <sup>2</sup>
Open time	30 min
Slip	≤ 0,5 mm
Transverse deformation	≥ 5,0 mm
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>

# BEYEM PRIME



EN 12004  
C2TES1



**ACCELERATED ADHESION**  
Reactive pozzolana (MK)



### Indoor Environment Quality



## ■ ABOUT THIS PRODUCT

BEYEM Prime is an extra-white polymer-modified and multiple consistency flexible adhesive with accelerated adhesion for the universal fixing of modular coatings (ceramic tiles, natural and reconstituted stones, etc...). Formulated with mixed binders, selected aggregates of exceptional whiteness, pozzolan (MK), modified sepiolite, fibers and last generation superabsorbent polymers that provide an exceptional workability, accelerated adhesions and an effective pore structure that translates into a superior wetting capability in a greater range of thickness and consistency of the adhesive. It does not cause settlement. Deformable and with no vertical slip. Highly resistant to mechanical stress in all its types (tensile strength, flexural strength, compression and shearing).

Protected with Sanitized®. Mildew resistant. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

■ USE

Laying of ceramic tiles of low/medium/high absorption, natural stone, low thickness ceramic, reconstituted stone, large format, vitreous mosaic, porcelain and stoneware tiles , etc ... in interior and exterior situations to walls and floors. Suitable for laying low absorption ceramic tiles and existing ceramic tile floors . Swimming pools. Ideal for underfloor heating/cooling or under tile warming and industrial and commercial applications (heavy traffic...) on floors. Ideal for industrialized construction and rehabilitation where a rapid development of performance and a wide range of thicknesses of use are required. Flexible regularization.

## ■ BENEFITS AND TECHNOLOGY

With super absorbent polymer

### Triple Open time

## Thixotropic and fluid

### With modified sepiolite

No vertical slip

Especially fine

## Pozzolanic effect

## Extra-white formula

### Resistant to mechanical stress

## Accelerated adhesion

## Deformable

Wide range of thicknesses

## Industrialized construction

Protected with Sanitized®

Very low VOCs emissions

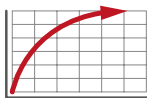
## Free of radionuclides

**More info:**





**Super absorbent polymer on modified sepiolite.** Provides an effective pore structure with "sponge" effect: the water is concentrated in the cavities of the adhesive, making a reserve and releasing it as needed. Allows the use of the adhesive in a wide range of consistencies and thickness thanks to the intelligent management of the mixing water. Allows internal curing of the material. Reduces the formation of skin by drying on the surface due to the homogeneous distribution of water. Result: Triple open time.



**ACCELERATED ADHESION**  
Reactive pozzolana (MK)

**Accelerated adhesion.**  
Reactive pozzolana (MK).



**Sanitized® Protection**  
Anti mildew barrier.



**Indoor  
Environment Quality**



**Indoor environment quality.**  
Very low VOCs emissions. No harmful emissions.

**FREE**  **Radiation Free.** Free of radionuclides. Free of Radon. "Radiation-free Certificate" IAF-Radioökologie GmbH.

## PACKAGING

BEYEM PRIME is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Extra-white, Grey
Bulk density	≈ 1250 Kg/m <sup>3</sup>
Density of the mix	≈ 1550 Kg/m <sup>3</sup>
Grading	0-500 µm
Mixing water %	± 31%
Pot life	≈ 3-6 h (may vary according to environmental conditions)
Adjustability time (23°C)	≥ 30 min
Grouting pared (23°C)	≈ 20 h
Thickness range	2-15 mm
Coverage por per mm of thickness	≈ 1,25 Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	C2TES1
Initial tensile adhesion strength (EN 12004-2, 8.3)	≥ 1,0 N/mm <sup>2</sup>
48 h	≥ 0,5 N/mm <sup>2</sup>
72 h	≥ 0,8 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion (EN 12004-2, 8.3)	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing (EN 12004-2, 8.3)	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles (EN 12004-2, 8.3)	≥ 1,0 N/mm <sup>2</sup>
Extended open time (EN 12004-2, 8.1)	≥ 0,5 N/mm <sup>2</sup>
30 min	≥ 0,5 N/mm <sup>2</sup>
40 min	≥ 0,5 N/mm <sup>2</sup>
50 min	≥ 0,5 N/mm <sup>2</sup>
Shear adhesion (Rodacal Beyem method)	≥ 1,0 N/mm <sup>2</sup>
Slip (EN 12004-2, 8.2)	≤ 0,5 N/mm <sup>2</sup>
Transverse deformation (EN 12004-2, 8.6)	≥ 2,5 mm
Interval before use (23° C)	
Foot traffic / Heavy traffic / Pools	48 h / 72 h / 7-10 days
Total VOCs	≤ 500 µg/m <sup>2</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,057

# BEYEM QUICK

DEFORMABLE, FAST SETTING, HIGH PERFORMANCE CEMENT BASED TILE ADHESIVE (C2FTS1),  
FOR RAPID INSTALLATIONS, RENOVATIONS AND APPLICATIONS



EN 12004  
C2FTS1



## ABOUT THIS PRODUCT

BEYEM QUICK is a fast setting, high performance cement based tile adhesive (C2FTS1), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Deformable. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles and natural stone, large formats and facade tiling. Ideal for applications where surfaces need to be quickly back in service.

## USE

Laying of ceramic tiles of low/medium/high absorption in interior and exterior situations to walls and floors. Especially suitable for laying low absorption and large formats ceramic tiles (porcelain, marble, natural stone...) in exterior walls and floors. Especially suitable for industrial and commercial applications (heavy traffic...) and underfloor heating or undertile warming. Ideal for applications where surfaces need to be quickly back in service (public buildings, supermarkets, refrigeration units...).

## BENEFITS

- High resistance to water and thermal shocks.
- High deformability.
- High water retentivity.
- High mechanical strength.
- Extended open time. Allows adjustment of tiles.
- Easy workable. Highly thixotropic.
- No vertical slip.
- Especially suitable for fixing large formats, industrial and commercial applications (heavy traffic...) and underfloor heating or undertile warming.

## PACKAGING

BEYEM QUICK is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1200 Kg/m <sup>3</sup>
Density of the mix	≈ 1640 Kg/m <sup>3</sup>
Grading	0-600 μm
Mixing water %	± 23 %
Pot life	≈ 20 min
Adjustability time	≥ 15-20 min
Grouting	≈ 4-6 h
Coverage	≈ 3,0 Kg/m <sup>2</sup> (single spread technique) ≈ 5,5 Kg/m <sup>2</sup> (double spread technique)
Set to light foot traffic	≈ 4-6 h
Tariff code	3824.50.90.00
Final performances	
Type	C2FTS1
Initial tensile adhesion strength	≥ 1,0 N/mm <sup>2</sup>
Early tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm <sup>2</sup>
Open time	20 min
Slip	≤ 0,5 mm
Transverse deformation	≥ 2,5 mm

More info:





# BEYEM VÍTREO

HIGH PERFORMANCE CEMENT BASED TILE ADHESIVE AND GROUT (C2TE CG1),  
FOR FIXING PORCELAIN TILES, GLASS MOSAIC AND TILING SWIMMING POOLS.



EN 12004  
C2TE  
EN 13888  
CG1



More info:



## ABOUT THIS PRODUCT

BEYEM VÍTREO is a high performance cement based tile adhesive and grout (C2TE CG1), formulated with white cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles, glass mosaic and tiling swimming pools.

## USE

Laying of ceramic tiles of low/medium/high absorption in interior walls and interior and exterior floors. Laying of ceramic tiles of medium/high absorption in exteriors walls. Suitable for laying marble and natural stone in interior and exterior floors. Specially suitable for tiling and grouting in a single operation and tiling pools.

## BENEFITS

- High tensile adhesion strength. High durability.
- High resistance to water and thermal shocks.
- High water retentivity.
- High mechanical strength.
- Extra-fine. Allows fixing and bonding and grouting in a single operation. Easy workable. Highly thixotropic.
- Extended open time. Allows adjustment of tiles.
- No vertical slip.
- Excellent abrasion resistance.

## PACKAGING

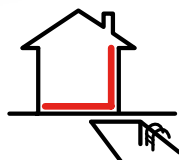
BEYEM VÍTREO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1150 Kg/m <sup>3</sup>
Density of the mix	≈ 1500 Kg/m <sup>3</sup>
Grading	0-500 μm
Mixing water %	± 40%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ Immediately
Coverage	≈ 3,5 Kg/m <sup>2</sup> (single spread technique) ≈ 5,5 Kg/m <sup>2</sup> (double spread technique)
Tariff code	3824.50.90.00
Final performances	
Type	C2TE CG1
Initial tensile adhesion strength	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm <sup>2</sup>
Open time	30 min
Slip	≤ 0,5 mm
Abrasion resistance	≤ 2000 mm <sup>3</sup>
Flexural strength after dry storage	≥ 2,5 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	≥ 2,5 N/mm <sup>2</sup>
Compressive strength after dry storage	≥ 15,0 N/mm <sup>2</sup>
Compressive strength after freeze-thaw cycles	≥ 15,0 N/mm <sup>2</sup>
Shrinkage	≤ 3 mm/m
Water absorption after 30 min	≤ 5 g
Water absorption after 240 min	≤ 10 g

# BEYEM DIR

THICK BED STANDARD CEMENT BASED  
TILE ADHESIVE FOR INTERIOR USE



## ABOUT THIS PRODUCT

BEYEM DIR is a thick bed standard cement based tile adhesive, formulated with cement, selected aggregates and special additives to improve workability, water retentivity, open time and adhesion. No vertical slip. Especially suitable for fixing tiles directly on brickwork substrates and very uneven walls.

## USE

Laying of small and medium ceramic tiles of medium and high absorption in interior walls and floors. On very uneven substrates (thick bed tile adhesive). No need for a previous plaster smoothing coat. Especially suitable for fixing tiles directly on brickwork substrates.

## BENEFITS

- It reduces tolerance to substrate flatness. No need for plastering. Saving materials and workforce.
- Non slip.
- High water retentivity.
- High tensile adhesion strength and mechanical strength.
- It allows up to 2 cm of thickness.

## PACKAGING

BEYEM DIR is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1530 Kg/m <sup>3</sup>
Grading	0-2,0 mm
Mixing water %	± 18%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≈ 16 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Compressive strength	≥ 5,0 MPa

More info:



# BEYEM DIR PORCELÁNICO

HIGH PERFORMANCE THICK BED CEMENT BASED TILE ADHESIVE  
FOR FIXING PORCELAIN TILES



## ABOUT THIS PRODUCT

BEYEM DIR PORCELÁNICO is a high performance thick bed cement based tile adhesive, formulated with cement, selected aggregates and special additives to improve workability, water retentivity, open time and adhesion. No vertical slip. Especially suitable for fixing porcelain tiles directly on brickwork substrates and very uneven walls.

## USE

Laying of ceramic tiles of low/medium/high absorption in interior and exterior walls and floors. On very uneven substrates (thick bed tile adhesive). No need for a previous plaster smoothing coat. Especially suitable for fixing porcelain tiles directly on brickwork substrates.

## BENEFITS

- It reduces tolerance to substrate flatness. No need for plastering. Saving materials and workforce.
- Non slip.
- High water retentivity.
- High tensile adhesion strength and mechanical strength.
- It allows up to 2 cm of thickness.

## PACKAGING

BEYEM DIR PORCELÁNICO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

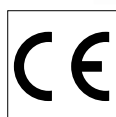
Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1580 Kg/m <sup>3</sup>
Grading	0-2,0 mm
Mixing water %	± 20%
Pot life	≈ 2 h
Adjustability time	≥ 20 min
Grouting	≈ 24 h
Coverage	≈ 16 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Compressive strength	≥ 5,0 MPa

More info:

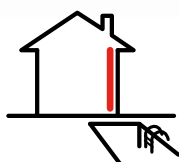


# BEYEM FIX

READY TO USE, DISPERSION ADHESIVE, D1E,  
FOR TILING IN INTERIOR WALLS



EN 12004  
D1E



## ABOUT THIS PRODUCT

BEYEM FIX is a ready-to-use, cement-free, dispersion adhesive, aqueous dispersion copolymer based formula adhesive, with selected granulometry mineral loads and state-of-the-art additives. Particularly suitable for fixing tiles over old wall tilings.

## USE

Laying of ceramic claddings, on all types of substrates, in interior claddings. Suitable for small and medium-size ceramics with medium, low or zero porosity. Gypsum board tiling, installation of polystyrene boards and other insulation material boards, wall tiling on existing ceramic tilings, ceramic installation on deformable supports and fixing on plaster surfaces.

## BENEFITS

- Ready-to use.
- Great flexibility. Highly deformable.
- High adherence.
- Easy-to-use.
- Allows for fixing over old wall tilings in good condition.
- Extended open time.
- High adjustability time.
- Great versatility of substrates, including deformable.

## PACKAGING

BEYEM FIX is packed in 5 Kg and 25 kg plastic pails.

## TECHNICAL DATA

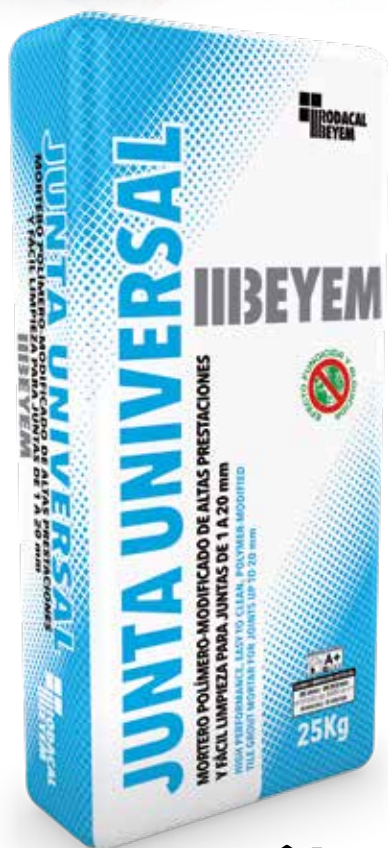
Product identity. Properties of mixture and application data	
Appearance	Thixotropic paste
Color	White
Grading	0-200 µm
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Adjustability time	≥ 40 min
Grouting	≈ 24 h-48 h
Coverage	≈ 1,5-2,0 Kg/m <sup>2</sup> per mm thickness
Tariff code	3506.91.00
Final performances	
Type	D1E
Initial tensile adhesion strength a cizalla	≥ 1,0 N/mm <sup>2</sup>
Shear adhesion strength after heat ageing	≥ 1,0 N/mm <sup>2</sup>
Open time	30 min
Commissioning time	≈ 7 days

More info:



# BEYEM JUNTA UNIVERSAL

POLYMER-MODIFIED TILE GROUT MORTAR (CG2 AW) WITH BACTERIOSTATIC AND FUNGISTATIC PROPERTIES FOR JOINTS UP TO 20 MM



## ABOUT THIS PRODUCT

BEYEM JUNTA UNIVERSAL is a polymer-modified, colored tile grout mortar formulated with cement, selected aggregates, special additives, synthetic resins and mineral pigments. BEYEM JUNTA UNIVERSAL incorporates a large spectrum biocide that provides algacide and fungicidal properties. For joints up to 20 mm.

Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Grout mortar for joints up to 20mm. Suitable for all types of ceramic tiles, natural stone, glass mosaic, marble, etc. For interior and exterior situations to walls and floors. Specially suitable for use in wet areas (swimming pools).

## BENEFITS

- Wide range of colours.
- Low water uptake.
- High hardness.
- High abrasion resistance.
- Algicidal and fungicidal effect.
- Easy to use. Easy to clean.
- Excellent workability. Great plasticity.
- Mould-resistant.
- Very low VOCs emissions.
- Smart microencapsulated pigment (black color).

## PACKAGING

BEYEM JUNTA UNIVERSAL is packed 25 kg plastic lined paper bags and 4x5 kg boxes.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1100 Kg/m <sup>3</sup>
Density of the mix	≈ 1650 Kg/m <sup>3</sup>
Mixing water %	± 29 %
Pot life	≈ 2 h
Coverage	It depends on size of tile and joint $[(A+B)/(A \times B)] \times C \times D \times 1,75$ A: length of tile, mm B: width of tile, mm C: thickness of tile, mm D: width of joint, mm
Tariff code	3824.50.90.00
Final performances	
Type	CG2 AW
Abrasion resistance	≤ 1000 mm <sup>3</sup>
Flexural strength after dry storage	≥ 2,5 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	≥ 2,5 N/mm <sup>2</sup>
Compressive strength after dry storage	≥ 15,0 N/mm <sup>2</sup>
Compressive strength after freeze-thaw cycles	≥ 15,0 N/mm <sup>2</sup>
Shrinkage	≤ 3 mm/m
Water absorption after 30 mm	≤ 2 g
Water absorption after 240 mm	≤ 5 g
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>

EN 13888  
CG2 AW



Indoor  
Environment Quality

More info:







110



120



130



210



220



250



260



320



330



340



350



360



370



380



410



420



430



440



450



460



470



480



710



820



830



840



850



860

Colour chart BEYEM JUNTA UNIVERSAL

# BEYEM JUNTA EXTRAFINA

FAST DRYING, POLYMER-MODIFIED TILE GROUT MORTAR (CG2 AW) FOR JOINTS UP TO 4 mm. SMOOTH FINISH. PROTECTED WITH SANITIZED®



EN 13888  
CG2 AW



More info:



## ABOUT THIS PRODUCT

BEYEM JUNTA EXTRAFINA is a fast drying, polymer-modified, colored tile grout mortar formulated with cement, selected aggregates, special additives, synthetic resins and mineral pigments. Especially suitable for joints up to 4 mm. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France).

## USE

Grout mortar for extra-fine and hygienic tile joints up to 4 mm. Suitable for all types of ceramic tiles, natural stone, glass mosaic, marble, etc. For interior and exterior situations to walls and floors. Ideal for use in wet areas (swimming pools). Especially suitable for grouting rectified porcelain tiles. Allows to renew damaged and eroded tile joints.

## BENEFITS

- Hygienic tile joints protected with Sanitized®.
- Resistant to mildew stains
- Prevents formation of mildew spores that are known allergens.
- Fresher longer. No more musty mildew odor.
- Wide range of colours. Stable and long lasting color.
- High hardness. High abrasion resistance. Low water uptake.
- Easy to use. Easy to clean. No scratching.
- Foot traffic: 24 h.
- Very low VOCs emissions.
- Smart microencapsulated pigment (black color).

## PACKAGING

BEYEM JUNTA EXTRAFINA is packed 25 kg plastic lined paper bags and 4x5 kg boxes.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 920 Kg/m <sup>3</sup>
Density of the mix	≈ 1840 Kg/m <sup>3</sup>
Mixing water %	30-32 %
Pot life	≤ 1 h
Waiting time for finishing	10-60 min
Foot traffic	24 h
Ready for use	72-96 h
Width of joints	1 a 4 mm
Coverage	It depends on size of tile and joint $[(A+B)/(A \times B)] \times C \times D \times 1,75$ A: length of tile, mm B: width of tile, mm C: thickness of tile, mm D: width of joint, mm
Tariff code	3824.50.90.00
Final performances	
Type	CG2 AW
Abrasion resistance	≤ 1000 mm <sup>3</sup>
Flexural strength after dry storage	≥ 2,5 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	≥ 2,5 N/mm <sup>2</sup>
Compressive strength after dry storage	≥ 15,0 N/mm <sup>2</sup>
Compressive strength after freeze-thaw cycles	≥ 15,0 N/mm <sup>2</sup>
Shrinkage	≤ 3 mm/m
Water absorption after 30 mm	≤ 2 g
Water absorption after 240 mm	≤ 5 g
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>



110



320



360



370



380



430



460



470



480



610



620



630



710



910



920



930



940



950

Colour chart BEYEM JUNTA EXTRAFINA



# BEYEM JUNTA-E

COLOURED, LOW SHRINKAGE REACTION RESIN  
TILE GROUT MORTAR AND ADHESIVE FOR JOINTS UP TO 16 mm.



EN 13888  
RG



EN 12004  
R2T



Resistant to  
chemical attacks



Ideal for  
industrial use

## ABOUT THIS PRODUCT

BEYEM JUNTA-E is a two-component, coloured reaction resin tile grout mortar and adhesive. Formulated with epoxy resin, selected aggregates, additives and mineral pigments. Particularly suitable for chemical and food industries, swimming pools, laboratories, hospitals, mechanical workshops, etc.

## USE

Fill joints of up to 16 mm. wide between tiles, vitrified tiles, boards, bricks etc. which must withstand chemical loads and/or high mechanical loads such as chemical and food industries, swimming pools, laboratories, hospitals, mechanical workshops, kitchens, high traffic areas, such as shopping centres, airports etc. Applicable in interior and exterior wall or floor tilings.

BEYEM JUNTA-E is also suitable for fixing small or medium formats and any absorption type ceramic claddings, on all types of substrates.

## BENEFITS

- Wide range of colours.
- Easy to apply, water washable.
- Shrinkage free. Watertight joints.
- Great adhesion.
- Highly durable.
- Waterproof.
- Resistant to acid attacks, alkalis, solvents, etc.
- 100% solid high-strength epoxy mortar.
- Stable and long lasting colour.
- Interior and exterior.

## PACKAGING

BEYEM JUNTA-E is packet in 5 Kg plastic pail, containing a kit of 3,75 Kg of A Component and 1,25 Kg of B Component in separate pails.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Paste
Color	Colour chart
Pot life	≈ 1 h (22°C)
Proportion of the components	Component A : Component B = 3 : 1
Coverage	It depends on size of tile and joint $[(A+B)/(A \times B)] \times C \times D \times 1,80$ A: length of tile, mm B: width of tile, mm C: thickness of tile, mm D: width of joint, mm
Tariff code	3506.99.90
Final performances	
Type	RG R2T
Abrasion resistance	≤ 250 mm <sup>3</sup>
Flexural strength	≥ 30,0 N/mm <sup>2</sup>
Compressive strength	≥ 45,0 N/mm <sup>2</sup>
Shrinkage	≤ 1,5 mm/m
Water absorption after 240 mm	≤ 0,1 g
Initial tensile adhesion strength a cizalla	≥ 2,0 N/mm <sup>2</sup>
Shear adhesion strength, shear adhesion strength after water immersion and shear adhesion strength after thermal shock	≥ 2,0 N/mm <sup>2</sup>
Slip	≤ 0,5 mm
Open time	20 min
Temperature resistance	-40 °C to 100°C

More info:











# Masonry Mortars

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## MASONRY MORTARS

### ■ Definition

A masonry mortar is defined as a mixture composed of one or several inorganic binding agents, aggregates, water and, sometimes, additives and/or admixtures for installation, fixing or grouting of masonry parts.

### ■ EN 998-2 Standard Classification

As per the concept:

- **Designed mortar:** Is that mortar whose composition and manufacturing system have been selected by the manufacturer in order to obtain the specified properties.
- **Prescribed mortar:** Made from primary constituents in pre-determined proportions. The properties of which are assumed from the stated proportions of its constituents.

Depending on its application and/or properties:

- **General purpose mortar (G):** Mortar for masonry without special characteristics.
- **Mortar for joints and thin layers (T):** Masonry mortar which is required to have a maximum aggregate particle size less than or equal to 2mm.
- **Lightweight mortar (L):** Masonry mortar which is required to have dry hardened density of less than 1300 kg/m<sup>3</sup> and containing lightweight aggregates in its composition.

According to the manufacturing system:

- **Factory made**
- **Semi-finished:** pre-batched or premixed.
- **Site made.**

### ■ Most typical characteristics

**Compressive strength:** It is designated with the letter M followed by the compressive strength class of the product in N/mm<sup>2</sup>, the value of which must be exceeded.

Type (examples)	Requirement
M 5	≥ 5 N/mm <sup>2</sup>
M 7,5	≥ 7,5 N/mm <sup>2</sup>
M 15	≥ 10,0 N/mm <sup>2</sup>

# BEYEM M - 5

DRY MORTAR  
FOR MASONRY WORKS G (M-5)



EN 998-2  
G(M5)

## ■ ABOUT THIS PRODUCT

BEYEM M-5 is a masonry dry mortar, formulated with high strength cement, selected aggregates and special additives to improve plasticity and workability of mortar.

## ■ USE

Laying of brickwork in walls, pillars and partition walls. Creating mortar screeds and floors. Masonry filling works. General purpose mortar for masonry works. Suitable in interior and exterior situations.

## ■ BENEFITS

- High water retentivity.
- Great plasticity. Excellent workability.
- Suitable for interior and exterior use.
- Factory produced for consistency of proportioning.

## ■ PACKAGING

BEYEM M-5 is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1600 Kg/m <sup>3</sup>
Density of the mix	≈ 2050 Kg/m <sup>3</sup>
Grading	0-2 mm
Mixing water %	± 11%
Coverage	According to use
Tariff code	3824.50.90.00
Final performances	
Type	G (M-5)
Initial shear strength	≥ 0,15 MPa
Compressive strength	≥ 5,0 MPa
Capillary water absorption	0,4 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≈ 15/35
Thermal conductivity	1,13 W/m·K
Reaction to fire	Euroclass A1

More info:





# BEYEM M - 15

DRY MORTAR  
FOR MASONRY WORKS G (M-15)



EN 998-2  
G(M15)

## ABOUT THIS PRODUCT

BEYEM M-15 is a masonry dry mortar, formulated with high strength cement, selected aggregates and special additives to improve plasticity and workability of mortar.

## USE

Laying of brickwork in walls, pillars and partition walls. Creating mortar screeds and floors. Masonry filling works. General purpose mortar for masonry works. Suitable in interior and exterior situations.

## BENEFITS

- High water retentivity.
- Great plasticity. Excellent workability.
- Suitable for interior and exterior use.
- Wide range of colours.
- Factory produced for consistency of proportioning.

## PACKAGING

BEYEM M-15 is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1550 Kg/m <sup>3</sup>
Density of the mix	≈ 2050 Kg/m <sup>3</sup>
Grading	0-2 mm
Mixing water %	± 12%
Coverage	According to use
Tariff code	3824.50.90.00
Final performances	
Type	G (M-15)
Initial shear strength	≥ 0,15 MPa
Compressive strength	≥ 15,0 MPa
Capillary water absorption	0,4 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≈ 15/35
Thermal conductivity	1,17 W/m·K
Reaction to fire	Euroclass A1

More info:











## Facade Coatings



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## FACADE COATINGS

### ■ Rendering and plastering mortars: EN 998-1 classification

(GP) General purpose mortar.  
 (LW) Lightweight plastering/rendering mortar.  
 (CR) Coloured mortar.  
 (OC) One coat mortar.  
 (R) Renovation plastering/rendering mortar.  
 (T) Thermal insulating mortar.

### ■ Hardened characteristics

Compressive strength: It is designated with the letter CS followed by the category (I, II, III or IV) according to the compressive strength of the product in N/mm<sup>2</sup>.

Type	Requirement
CSI	[ 0,4-2,5 N/mm <sup>2</sup> ]
CSII	[ 1,5-5,0 N/mm <sup>2</sup> ]
CSIII	[ 3,5-7,5 N/mm <sup>2</sup> ]
CSIV	[ ≥ 6,0 N/mm <sup>2</sup> ]

Capillary water absorption: It is designated with the letter W<sub>c</sub> followed by the category (0, 1 or 2) according to the value of water absorption by capillarity of the product in kg/m<sup>2</sup>·min<sup>0.5</sup>.

Type	Requirement
W <sub>c</sub> 0	Not specified
W <sub>c</sub> 1	C ≤ 0,40 kg/m <sup>2</sup> ·min <sup>0.5</sup>
W <sub>c</sub> 2	C ≤ 0,20 kg/m <sup>2</sup> ·min <sup>0.5</sup>

All the facade claddings marketed by Rodacal Beyem are suitable for external use, that is, they protect the enclosure of rainwater, and furthermore are suitable for spray machines.

### ■ Continuous Render

A continuous render is a material which is applied directly over another cladding or cladded surface in order to imbue same with certain qualities that the substrate itself does not possess or improve same in the event that it already possesses those qualities.

The claddings provide the facade architecture with a fundamental contribution insofar as protection and aesthetics to the enclosure are concerned. Their variety of aspects and textures permit same to obtain a very comprehensive range of effects.

### ■ One coat Mortar Beyem BR:

The Beyem BR one coat mortar is a prepared and factory dosed material which is supplied in 25 kg bags, ready for use, without further addition of materials, at the time of application, the proportion of water required to obtain in the prepared paste the proper consistency.

Its application is generally carried out on the base or substrate, resulting in the majority of the cases, the final finish in the same installation operation.

The Beyem B-R one coat mortar has the CE marking, is standardised under EN 998-1 Standard and possesses the Technical Approval Document (D.I.T Plus) granted by the Eduardo Torroja Institute (CSIC) in Spain.

The Technical Approval Document (D.I.T Plus) is a favourable technical assessment by the Eduardo Torroja Construction Sciences Institute, which evaluates voluntary aspects not covered by the CE marking.



Benefits of using Beyem BR:

- Lower consumption, greater yield.
- Specifically designed for application via spraying machine.
- Lightweight Suitable for the renovation of old buildings.
- Low thermal conductivity.
- Low modulus of elasticity. Greater inertia for cracking.
- Increased resistance to frost.
- Reduces the risk of efflorescence.

### ■ Photocatalytic renders

Air pollution is the presence in the atmosphere of substances in an amount which entails annoyance or risk to the health of people and other living organisms. The main mechanisms as regards air pollution are industrial processes which entail combustion, both in industries such as automobiles and residential heating, that generate carbon dioxide and monoxide, nitrogen oxides and sulphur, among other pollutants.

Photocatalysis is a chemical reaction by which the combined action of light and a photocatalyst accelerates the rate of decomposition of a given compound. In this fashion, harmful organic and inorganic substances can be converted into completely innocuous compounds.

The Photocatalytic NO<sub>x</sub> Active Principle is based on photocatalytic functional additives introduced on the basis of a silicate that is introduced into the host systems with the ability to eliminate contaminating matter from the surface due to the exposure to light.

This technology which allows for the design of Photocatalytic Mortars with self-cleaning and decontamination properties.

Rodacal Beyem has decontaminating and self-cleaning mortars, identified by these symbols:



These mortars offer the best technology available in the market and represent our commitment to the Environment as regards facade claddings.



# BEYEM B-R

LIGHTWEIGHT, SCRAPED FINISH, RAINWATER-PROOF  
ONE COAT MORTAR FOR FACADE DECORATION



EN 998-1  
OC CSIV W<sub>c</sub> 2



D.I.T. N°411-p

More info:



## ABOUT THIS PRODUCT

BEYEM B-R is a lightweight rainwater-proof one coat mortar for decoration of facades. Formulated with white cement, selected and lightweight aggregates, special additives, and inorganic pigments.

It allows constant hygrometric exchange between the substrate and the environment.

## USE

Mineral and rainwater-proof one coat mortar for facades, brickwork and concrete block enclosures. Rough and scraped finishes. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically. Through coloured for low maintenance.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- D.I.T Plus issued by letcc.
- Applicable directly to the building enclosure.
- Lightweight. Excellent workability.
- Rough and scraped finishes.
- Rainwater-proof and permeable to water vapour.
- Low maintenance.
- Suitable for internal and external walls.
- New construction and rehabilitation.
- Through-coloured render. Wide range of colours.

## PACKAGING

BEYEM B-R is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1500 Kg/m <sup>3</sup>
Density of the mix	≈ 1750 Kg/m <sup>3</sup>
% Particles larger than 1 mm	< 12%
Mixing water %	± 23%
Minimum finishing thickness	10 mm
Maximum layer thickness	15 mm
Coverage	≈ 15Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	OC CSIV W <sub>c</sub> 2
Adhesion after weathering cycles	≥ 0,50 MPa
Compressive strength	≥ 6,0 MPa
Shrinkage	≤ 1 mm/m
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water permeability after weathering cycles	≤ 1 ml/cm <sup>2</sup> , after 48h
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,67 W/m·K
Reaction to fire	Euroclass A1



110



120



130



140



210



220



310



320



330



340



410



420



430



440



510



520



530



610



620



710



810



820



910



920



930



1010



1020



1030

Colour chart BEYEM B-R



# BEYEM B - P

LIGHTWEIGHT, RAINWATER-PROOF, PROJECTED AGGREGATE AND TEXTURED FINISHES, ONE COAT MORTAR FOR FACADE DECORATION



EN 998-1  
OC CSIV W<sub>c</sub> 2

More info:



## ABOUT THIS PRODUCT

BEYEM B-P is a lightweight rainwater-proof one coat mortar for decoration of facades. Formulated with white cement, selected and lightweight aggregates, special additives, and inorganic pigments. It allows constant hygrometric exchange between the substrate and the environment. Especially suitable for projected aggregate finishing.

## USE

Mineral and rainwater-proof one coat mortar for facades, brickwork and concrete block enclosures. Projected aggregate and textured finishes. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically. Through coloured for low maintenance.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- Long open time for aggregate projection.
- Applicable directly to the building enclosure.
- Lightweight. Excellent workability.
- Projected aggregate and textured finishes.
- Rainwater-proof and permeable to water vapour.
- Low maintenance.
- Suitable for internal and external walls.
- New construction and rehabilitation.
- Through-coloured render. Wide range of colours.

## PACKAGING

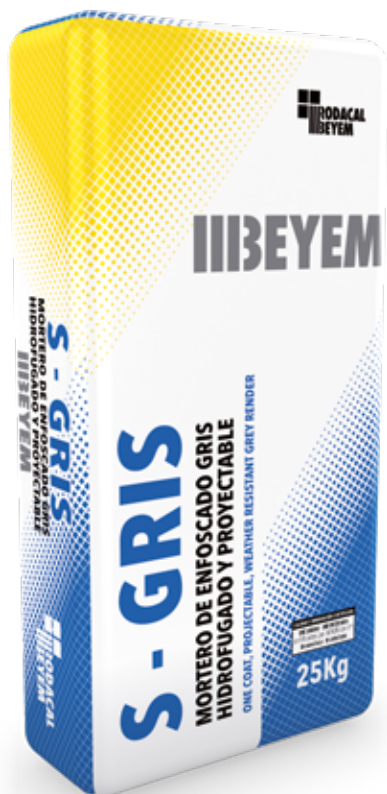
BEYEM B-P is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1275 Kg/m <sup>3</sup>
Density of the mix	≈ 1500 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 28%
Minimum finishing thickness	10 mm
Maximum layer thickness	16 mm
Coverage	≈ 13Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	OC CSIV W <sub>c</sub> 2
Adhesion after weathering cycles	≥ 0,30 MPa
Compressive strength	≥ 6,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water permeability after weathering cycles	≤ 1 ml/cm <sup>2</sup> , after 48h
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,40 W/m·K
Reaction to fire	Euroclass A1

# BEYEM S - GRIS

ONE COAT WEATHER RESISTANT GREY RENDER  
SUITABLE FOR SPRAY MACHINES



EN 998-1  
OC CSIV W<sub>c</sub> 1

More info:



## ■ ABOUT THIS PRODUCT

BEYEM S-Gris is a rainwater-proof, rendering and plastering dry mortar, formulated with grey cement, selected aggregates and special additives.

## ■ USE

Mineral render for facades, brickwork and concrete block enclosures. Suitable as a grey coat finishing render or as a base coat for receiving mineral plasters, paints and ready to use dispersion/silicate/silicon resin based renders. As an undercoat in others multi-coat render systems. Interior plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- Applicable directly to the building enclosure.
- High workability.
- Float/sponge/trowel smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.

## ■ PACKAGING

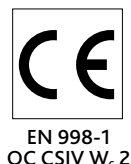
BEYEM S-Gris is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1750 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 18%
Minimum finishing thickness	10 mm
Maximum thickness application	20 mm (two layers)
Coverage	≈ 15Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV W <sub>c</sub> 1
Adhesion	≥ 0,20 MPa
Compressive strength	≥ 8,0 MPa
Capillary water absorption	≤ 0,4 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 20
Thermal conductivity	0,67 W/m·K
Reaction to fire	Euroclass A1

# BEYEM S - BLANCO

ONE COAT WEATHER RESISTANT WHITE RENDER  
SUITABLE FOR SPRAY MACHINES



## ■ ABOUT THIS PRODUCT

BEYEM S-BLANCO is a rainwater-proof, rendering and plastering dry mortar, formulated with white cement, selected aggregates and special additives.

## ■ USE

Mineral render for facades, brickwork and concrete block enclosures. Suitable as a grey coat finishing render or as a base coat for receiving mineral plasters, paints and ready to use dispersion/silicate/silicon resin based renders. As an undercoat in others multi-coat render systems. Interior plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- Applicable directly to the building enclosure.
- High workability.
- Float/sponge/trowel smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.

## ■ PACKAGING

BEYEM S-BLANCO is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1650 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 16%
Minimum finishing thickness	10 mm
Maximum thickness application	20 mm (two layers)
Coverage	≈ 15Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV Wc 2
Adhesion	≥ 0,20 MPa
Compressive strength	≥ 8,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 20
Thermal conductivity	0,81 W/m·K
Reaction to fire	Euroclass A1

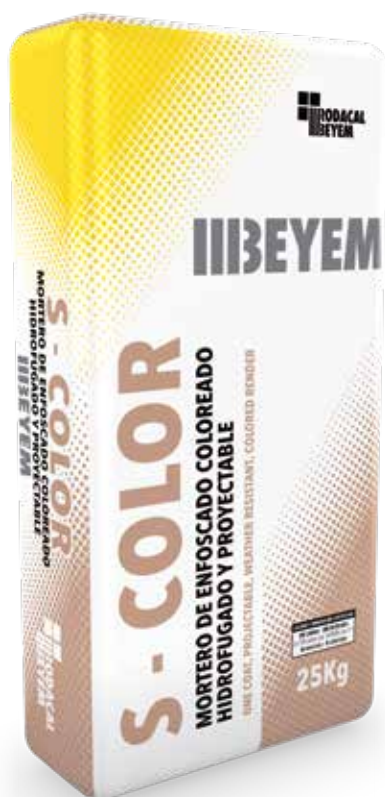
More info:





# BEYEM S - COLOR

ONE COAT WEATHER RESISTANT COLORED  
RENDER SUITABLE FOR SPRAY MACHINES



EN 998-1  
OC CSIV W<sub>c</sub> 2

More info:



## ■ ABOUT THIS PRODUCT

BEYEM S-COLOR is a rainwater-proof, rendering and plastering colored dry mortar, formulated with white cement, selected aggregates, special additives and inorganic pigments.

## ■ USE

Mineral render for facade decoration, suitable for brickwork and concrete block enclosures. Suitable as a colored coat finishing render or as a base coat for receiving mineral plasters, paints and ready to use dispersion/silicate/silicon resin based renders. As an undercoat in others multi-coat render systems. Interior plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- Applicable directly to the building enclosure.
- High workability.
- Float/sponge/trowel smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.
- Through-coloured render. Wide range of colours.

## ■ PACKAGING

BEYEM S-COLOR is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1650 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 16%
Minimum finishing thickness	10 mm
Maximum thickness application	20 mm (two layers)
Coverage	≈ 15Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV W <sub>c</sub> 2
Adhesion	≥ 0,20 MPa
Compressive strength	≥ 8,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 20
Thermal conductivity	0,81 W/m·K
Reaction to fire	Euroclass A1



110



140



320



330



420



440



520



710



930



1010



1030

Colour chart BEYEM S - COLOR

# BEYEM IMPER

ONE COAT RAINWATER-PROOF EXTRA WHITE RENDER  
SUITABLE FOR SPRAY MACHINES



EN 998-1  
OC CSIV W<sub>c</sub> 2

More info:



## ABOUT THIS PRODUCT

BEYEM IMPER is a rainwater-proof extra white rendering and plastering dry mortar, formulated with white cement, selected white aggregates and special additives.

## USE

Mineral and rainwater-proof render for facades, brickwork and concrete block enclosures. Suitable as a white coat finishing render or as a base coat for receiving mineral plasters, paints and ready to use dispersion/silicate/silicon resin based renders. As an undercoat in others multi-coat render systems. Interior plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Excellent whiteness.
- Good mechanical strengths.
- Applicable directly to the building enclosure.
- High workability.
- Float/sponge/trowel smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.

## PACKAGING

BEYEM IMPER is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1380 Kg/m <sup>3</sup>
Density of the mix	≈ 1580 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 18%
Minimum finishing thickness	10 mm
Maximum thickness application	20 mm (two layers)
Coverage	≈ 15Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV W <sub>c</sub> 2
Adhesion	≥ 0,20 MPa
Compressive strength	≥ 8,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 20
Thermal conductivity	0,76 W/m·K
Reaction to fire	Euroclass A1

# BEYEM PLUS

ONE COAT RAINWATER-PROOF EXTRA WHITE FINE  
PLASTER SUITABLE FOR SPRAY MACHINES



EN 998-1  
OC CSIII W<sub>c</sub> 2

## ■ ABOUT THIS PRODUCT

BEYEM PLUS is a rainwater-proof extra white plastering dry mortar, formulated with white cement, selected fine white aggregates and special additives. Fine finishing.

## ■ USE

Mineral and rainwater-proof plaster for facades. Fine and extra-white finishing plaster to use over mortar undercoats. Interior extra-white plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Excellent whiteness
- Good mechanical strengths.
- High workability.
- Float/sponge/trowel very fine smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.

## ■ PACKAGING

BEYEM PLUS is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Blanco
Bulk density	≈ 1450 Kg/m <sup>3</sup>
Density of the mix	≈ 1690 Kg/m <sup>3</sup>
Grading	0 - 800 μm
Mixing water %	± 22%
Average thickness application	4 - 5 mm
Coverage	≈ 14Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIII W <sub>c</sub> 2
Adhesion	≥ 0,2 MPa
Compressive strength	≥ 6,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,40 W/m·K
Reaction to fire	Euroclass A1

More info:





# BEYEM PLUS NOx

PHOTOCATALYTIC, WITH SELF-CLEANING  
AND DECONTAMINATING PROPERTIES, EXTRA WHITE FINE PLASTER



EN 998-1  
OC CSIII W<sub>c</sub> 2



More info:



## ■ ABOUT THIS PRODUCT

BEYEM PLUS NOx is a photocatalytic, with self-cleaning and decontaminating properties, rainwater-proof extra white plastering dry mortar, formulated with white cement, selected fine white aggregates, photocatalytic reagents and special additives. Fine finishing.

## ■ USE

Photocatalytic, mineral and rainwater-proof plaster for facades. Self-cleaning and decontaminating coating.

BEYEM PLUS NOx degrades organic and inorganic substances deposited on its surface, which helps to maintain its aesthetic quality over time.

BEYEM PLUS NOx reduces the concentration of most of the pollutants present in urban areas, turning harmful gases into compounds that are safe for health and the environment, through a natural process free of chemical agents.

Fine and extra-white finishing plaster to use over mortar undercoats. Interior extra-white plastering. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Excellent whiteness.
- Good mechanical strengths.
- Decontaminating and self-cleaning effect.
- High workability.
- Float/sponge/trowel very fine smoothed finishes.
- Rainwater-proof and permeable to water vapour.
- Suitable for internal and external walls.
- Easy and fast application.
- Factory produced for consistency of proportioning.

## ■ PACKAGING

BEYEM PLUS NOx is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1450 Kg/m <sup>3</sup>
Density of the mix	≈ 1690 Kg/m <sup>3</sup>
Grading	0 - 800 μm
Mixing water %	± 22%
Average thickness application	4 - 5 mm
Coverage	≈ 14Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIII W <sub>c</sub> 2
Adhesion	≥ 0,2 MPa
Compressive strength	≥ 6,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,40 W/m·K
Reaction to fire	Euroclass A1

# BEYEM TIXO

ONE-COMPONENT, FIBER-REINFORCED DRY MORTAR  
FOR THEMING AND MODELING WORKS



EN 998-1  
CR CSIV W<sub>c</sub> 2

More info:



## ABOUT THIS PRODUCT

BEYEM TIXO is a one-component, shrinkage compensated, fiber-reinforced mortar for reliefs reconstruction flattened and shaped of surfaces. Professional theming works. Formulated with special cements, selected and lightweight aggregates, organic and inorganic additives and thixotropic agents.

## USE

Making reliefs of various aspects. For reliefs reconstruction flattened and shaped of surfaces. Imitation of natural environments (stones, rocks, etc.). Professional theming and modeling works. Facade coating with different finishes. Ornamental elements such as baseboards, cornices, etc. Wall covering. Facade rehabilitation. Repairs of balconies corners, cornices, edges, etc.

## BENEFITS

- Highly thixotropic.
- Rainwater-proof and permeable to water vapour.
- Lightweight. Suitable for spray render and pump machines or manual applications.
- High adhesion.
- Very low shrinkage behaviour.
- High mechanical strengths.
- Fiber-reinforced.

## PACKAGING

BEYEM TIXO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1750 Kg/m <sup>3</sup>
Grading	0 - 800 μm
Mixing water %	± 23%
Minimum thickness de aplicación	5 mm
Maximum thickness application	40 mm (without armor)
Coverage	≈ 15 - 20 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV W <sub>c</sub> 2
Adhesion	≥ 0,35 MPa
Compressive strength	≥ 10,0 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,67 W/m·K
Reaction to fire	Euroclass A1

# BEYEM S AR M - 25

HIGH STRENGTH RENDER SUITABLE  
FOR SPRAY MACHINES



EN 998-1  
GP CSIV W<sub>c</sub> 1

More info:



## ABOUT THIS PRODUCT

BEYEM S AR M-25 is a high strength rendering dry mortar and projectable thixotropic micro-concrete, formulated with high strength cement, selected aggregates and special additives to improve workability, and adhesion. Available in fine and thick version.

## USE

High strength rendering works. Especially suitable for construction systems with structural panels as ICFs (Insulating Concrete Forms). Works in farms, swimming pools and fillings. Support of slopes and reinforced surfaces. Basecoat for theming and modeling works when large volumes and/or armors are necessary.

General purpose masonry mortar when high resistance is required. Suitable both in interior and exterior situations.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- High mechanical strengths.
- High water retentivity.
- Excellent workability.
- Fine smooth finishes.
- Suitable for internal and external situations.
- Easy and fast application.
- Free of chlorides.
- Factory produced for consistency of proportioning.

## PACKAGING

BEYEM S AR M-25 is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White or Grey
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 2075 Kg/m <sup>3</sup>
Grading	Fine: 0-2 mm Thick: 0-4 mm
Mixing water %	± 17% (Fino) ± 15% (Grueso)
Coverage	≈ 20 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSIV W <sub>c</sub> 1
Adhesion	≥ 0,3 MPa
Compressive strength	≥ 25,0 MPa
Capillary water absorption	≤ 0,4 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15/35
Thermal conductivity	0,92 W/m-K
Reaction to fire	Euroclass A1









# Building Rehabilitation. Lime Mortars



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## BUILDING REHABILITATION. LIME MORTARS

### ■ Refurbishing the past

The restoration of old facades is a noble task which must be undertaken with resources and materials that respect the original characteristics of the work. There is a wide variety of old buildings, from common buildings intended for housing, commerce or services to other buildings with a monumental and historical aspect (palaces, monasteries, churches, castles etc.), which are part of collective memory and must be restored respecting the original materials, textures and colours and introducing elements and technologies that meet the prevailing requirements. The range of Beyem Neocal products present uniform characteristics and features which allow the architectural heritage to perpetuate in time, conferring natural finishes.

### ■ Benefits

- High breathability, allowing the wall to breathe.
- Great variety of finishes, textures and colours.
- Rainwater proof.
- Increased resistance to salts.
- Excellent workability.
- Manual or mechanical application.
- Suitable for spray machines.
- Mineral products.
- Mechanical performance compatible with old masonry.
- Very low emissions of VOCs.
- Increased resistance to the proliferation of microorganisms.
- Good behaviour against rising damp.
- Interior and exterior application.
- "Radiation Free" Certificates.

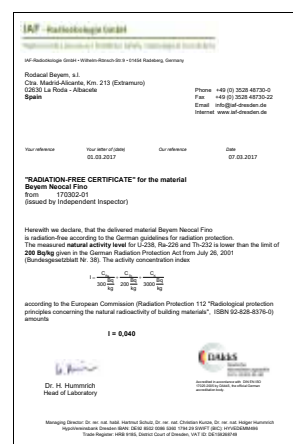


Mineral mortars



Indoor  
Environment Quality

Interior Environment Quality.  
Classified as A + according to  
Décret n° 2011-321 (France).  
Very low emissions of VOCs.



The Beyem Neocal mortar range is certified as "Radiation Free" according to the European reference laboratory in this area, based on the European Commission "Radiation Protection" document, which specifies the principles of radiation protection in relation to the natural radioactivity of construction materials.

Humans are exposed to radiation continuously, the majority of which occur naturally in our environment. Many of the frequently used construction materials may contain natural radioactive elements (Uranium, Thorium, Lead) from the raw materials used in their manufacture. The European Commission "Radiation Protection 112" document proposes the calculation of an index (I) to limit the concentrations of natural nucleic radioactivity present in said building materials. Particularly dangerous is the exposure to Radon gas, from the radioactive chains of Uranium and Thorium mainly. It is precisely one of the radon isotopes which escapes in the form of gas to the atmosphere and is **responsible for 50% of the total dose of natural radiation received by humans**. Therefore, it is vitally important to ensure the safety in this regard of the materials used in construction. Precisely, the 2013/59 / EURATOM Directive establishes the need to create reference levels in living spaces for radon gas concentrations and for exposure to radiation emitted by building materials.

The Beyem Neocal Base, Beyem Neocal Fino, Beyem Neocal Sanamur, Beyem Neocal Mur and Beyem Neocal Premix mortars via the "Radiation Free" certification, provide a safe use and demonstrate their conformity as per the recommendations of the European Union on radiation protection in relation to natural radioactivity of construction materials.



# BEYEM NEOCAL FINO

BREATHABLE, THROUGH-COLOURED, EXTERNAL DECORATIVE, FINE, LIME MORTAR SUITABLE FOR SPRAY MACHINES



EN 998-1  
CR CSII W<sub>c</sub> 2



Indoor  
Environment Quality



More info:



## ABOUT THIS PRODUCT

BEYEM NEOCAL FINO is a breathable, through-coloured, external decorative, fine, rendering and plastering lime mortar. Formulated with mixed binders, lime, selected white aggregates, and special additives. Fine scraping, trowelled, burnished and smooth finishing. Especially suitable for rehabilitation of historic and/or protected buildings. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

## USE

Through-coloured, fine, lime rendering and plastering mortar for both building rehabilitation and new construction. Especially suitable for fine and smooth finishes in rehabilitation of historic and/or protected buildings. Facade protection. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically. Especially suitable as a finish coat for BEYEM NEOCAL BASE basecoat.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Mechanical strengths corresponding to lime mortars.
- High water vapour permeability. Allows the wall to breathe.
- Great plasticity.
- Compatible with old masonry brickworks/walls.
- Great variety of finishes.
- Rainwater- proof. Weather resistant.
- Suitable for internal or external walls.
- New construction and building rehabilitation.
- Very low VOCs emissions.
- Radiation-free certificate.
- Mineral product.

## PACKAGING

BEYEM NEOCAL FINO is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1320 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0 - 600 μm
Mixing water %	± 22%
Average thickness application	4 - 6 mm
Coverage	≈ 14Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CR CSII W <sub>c</sub> 2
Adhesion	≥ 0,15 MPa
Compressive strength	≥ 1,5 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,75 W/m·K
Reaction to fire	Euroclass A1
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,040



# BEYEM NEOCAL FINO NOx

PHOTOCATALYTIC, WITH SELF-CLEANING  
AND DECONTAMINATING PROPERTIES,  
THROUGH-COLOURED, FINE LIME MORTAR.



EN 998-1  
CR CSII W<sub>c</sub> 2



Indoor  
Environment Quality



More info:



## ■ ABOUT THIS PRODUCT

BEYEM NEOCAL FINO NOx is a photocatalytic, with self-cleaning and decontaminating properties, fine, rendering and plastering lime mortar. Formulated with mixed binders, lime, selected white aggregates, photocatalytic reagents and special additives. Fine scraping, trowelled, burnished and smooth finishing. Especially suitable for rehabilitation of historic and/or protected buildings.

## ■ USE

Photocatalytic, through-coloured, fine, lime rendering and plastering mortar for both building rehabilitation and new construction. Self-cleaning and decontaminating coating. BEYEM NEOCAL FINO NOx degrades organic and inorganic substances deposited on its surface, which helps to maintain its aesthetic quality over time. BEYEM NEOCAL FINO NOx reduces the concentration of most of the pollutants present in urban areas, turning harmful gases into compounds that are safe for health and the environment, through a natural process free of chemical agents. Especially suitable for fine and smooth finishes in rehabilitation of historic and/or protected buildings. Facade protection. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically. Especially suitable as a finish coat for BEYEM NEOCAL BASE basecoat).

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Mechanical strengths corresponding to lime mortars.
- Decontaminating and self-cleaning effect.
- High water vapour permeability. Allows the wall to breathe.
- Great plasticity.
- Compatible with old masonry brickworks/walls.
- Great variety of finishes.
- Rainwater- proof. Weather resistant.
- Suitable for internal or external walls.
- New construction and building rehabilitation.
- Mineral product.

## ■ PACKAGING

BEYEM NEOCAL FINO NOx is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1320 Kg/m <sup>3</sup>
Density of the mix	≈ 1700 Kg/m <sup>3</sup>
Grading	0 - 600 μm
Mixing water %	± 22%
Average thickness application	4 - 6 mm
Coverage	≈ 14Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CR CSII W <sub>c</sub> 2
Adhesion	≥ 0,15 MPa
Compressive strength	≥ 1,5 MPa
Capillary water absorption	≤ 0,2 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,75 W/m·K
Reaction to fire	Euroclass A1



110



140



320



330



420



440



520



710



930



1010

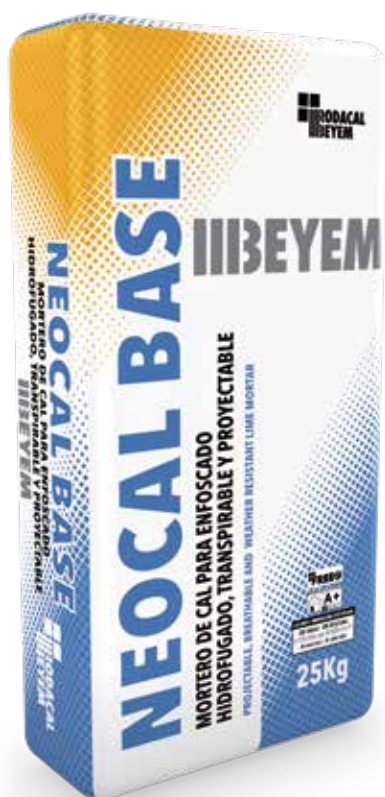


1030

Colour Chart BEYEM NEOCAL FINO and  
BEYEM NEOCAL FINO NOx

# BEYEM NEOCAL BASE

BREATHABLE AND RAINWATER-PROOF  
LIME MORTAR SUITABLE FOR SPRAY MACHINES



EN 998-1  
GP CSII W<sub>c</sub> 1



Indoor  
Environment Quality



More info:



## ABOUT THIS PRODUCT

BEYEM NEOCAL BASE is a breathable and rainwater-proof rendering lime mortar, suitable for both building rehabilitation and new construction. Formulated with mixed binders, lime, selected white aggregates, and special additives. Especially suitable for rehabilitation of historic and/or protected buildings (old masonry walls). Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

## USE

Thick bed rendering lime mortar for both building rehabilitation and new construction. Suitable to compensate uneven surfaces and flatness of the support. Ribbed metal wall panels especially designed for mortars. Especially suitable as a basecoat for BEYEM NEOCAL FINO finish. For grouting stonework. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically.

## BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Mechanical strengths corresponding to lime mortars.
- High water vapour permeability. Allows the wall to breathe.
- Great plasticity.
- Compatible with old masonry brickworks/walls.
- Applicable directly to the building enclosure.
- Rainwater-proof. Weather resistant.
- Suitable for internal or external walls.
- New construction and building rehabilitation.
- Very low VOCs emissions.
- Radiation-free certificate.
- Mineral product.

## PACKAGING

BEYEM NEOCAL BASE is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1750 Kg/m <sup>3</sup>
Grading	0 - 2 mm
Mixing water %	± 19%
Minimum finishing thickness	10 mm
Maximum layer thickness	15 mm
Maximum thickness application	40 mm (three layers)
Coverage	≈ 16Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	GP CSII W <sub>c</sub> 1
Adhesion	≥ 0,2 MPa
Compressive strength	≥ 1,5 MPa
Capillary water absorption	≤ 0,4 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,75 W/m·K
Reaction to fire	Euroclass A1
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,039

# BEYEM NEOCAL SANAMUR

TWO-COMPONENT DEHUMIDIFYING LIME  
MORTAR FOR RENOVATING MASONRY  
WITH RISING DAMP



EN 998-1  
R CSII



More info:



## ABOUT THIS PRODUCT

BEYEM NEOCAL SANAMUR is a two- component dehumidifying lime mortar for renovating masonry with rising damp in buildings. Formulated with mixed binders, lime, selected white aggregates, and special additives. Fine and smooth finish. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

## USE

Dehumidifying lime mortar for renovating masonry affected by rising damp, filtration, condensation and efflorescences both in building rehabilitation and new construction. Fine finish. Interior and exterior situations.

## BENEFITS

- Rainwater-proof. Weather resistant.
- Macroporous. High water vapour permeability.
- Salt-resistant.
- Allows evaporation of water.
- Excellent adhesion.
- Fine and extra-white finish.
- Compatible with old masonry brickworks/walls.
- Mechanical strengths corresponding to lime mortars.
- Great plasticity.
- Suitable for internal or external walls.
- Very low VOCs emissions.
- Radiation-free certificate.
- Mineral product.

## PACKAGING

BEYEM NEOCAL SANAMUR is packed in pre-measured batches of 31,5 kg (25 kg plastic lined paper bags – Component A- and 6,5 kg plastic bottle – Component B-).

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance and Color	Component A White powder Component B Whitish liquid
Bulk density	≈ 1400 Kg/m <sup>3</sup>
Density of the mix	≈ 1750 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Maximum layer thickness	10 mm
Maximum thickness application	25 mm (three layers)
Coverage	≈ 14Kg/m <sup>2</sup> per cm of thickness
Tariff code	Component A 328.54.90.00 Component B 3209.10.00.00
Final performances	
Type	R CSII
Adhesion	≥ 0,4 MPa
Compressive strength	≥ 1,5 MPa
Capillary water absorption	≤ 0,3 kg/m <sup>2</sup> min <sup>1/2</sup> (after 24 hours)
Penetración de agua	≤ 5 mm
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,67 W/m-K
Reaction to fire	Euroclass F
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,047



# BEYEM NEOCAL PASTA

PREPARATION OF RESTED LIME PASTE  
BASED ON SLAKED LIME CL-90-S AND WATER

## ■ ABOUT THIS PRODUCT

BEYEM NEOCAL PASTA is a preparation of rested lime paste based on slaked lime CL-90-S and water and has a sticky and unctuous consistency and excellent workability. The lime used comes from the decomposition by calcination and subsequent hydration of very pure limestones.

## ■ USE

BEYEM NEOCAL PASTA has a wide field of use in industry, construction and agriculture. Specially designed for use as raw material for the realization of plastering mortars, renders, lime paints, stuccos and any type of products and finishes related to the restoration of historic buildings, high decoration and bioconstruction.

## ■ BENEFITS

- Excellent whiteness
- Slow carbonation.
- Natural product.
- Great adhesion.
- Bactericidal and fungicidal properties.
- High thixotropy and plasticity. Very fine finish.
- Highly breathable.
- High thermal resistance.
- It dries by absorbing CO<sub>2</sub>.
- Ready to use.

## ■ PACKAGING

BEYEM NEOCAL PASTA is packaged in 5, 10 and 20 Kg plastic pails.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Type	Rested lime preparation
Appearance	Dense paste
Color	White
Density	≈ 1350 Kg/m <sup>3</sup>
Coverage	According to use
Tariff code	25.22.20.00



More info:



# BEYEM NEOCAL MUR

BREATHABLE, HYDRAULIC LIME MORTAR  
FOR MASONRY WORKS. NATURAL COMPOSITION



EN 998-2  
G



Indoor  
Environment Quality



More info:



## ABOUT THIS PRODUCT

BEYEM NEOCAL MUR is a highly breathable natural hydraulic lime (NHL) mortar for brickwork and masonry works, suitable for both building rehabilitation and new construction. Formulated with natural hydraulic lime (NHL), natural pozzolan, selected aggregates and organic additives. BEYEM NEOCAL MUR has a natural composition and is specially suitable for rehabilitation of historic and/or protected buildings (old masonry walls). Free of Portland cement. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

## USE

Natural hydraulic lime (NHL) mortar for stonework, brickwork, wall repairs and other masonry works. Suitable for both building rehabilitation and new construction.

Especially suitable for rehabilitation of historic and/or protected buildings (old masonry walls) due its high compatibility with traditional systems Suitable in interior and exterior situations.

## BENEFITS

- Mechanical strengths corresponding to lime mortars.
- High water vapour permeability. Allows the wall to breathe.
- Great plasticity. Excellent adhesion.
- Compatible with old masonry brickworks/walls.
- Extended workability time and adjustment of pieces.
- Excellent finishing.
- Free of chlorides.
- Suitable for internal or external works.
- New construction and building rehabilitation.
- Natural bacteriostatic and natural fungistatic.
- Very low VOCs emissions.
- Radiation-free certificate.
- Mineral product.

## PACKAGING

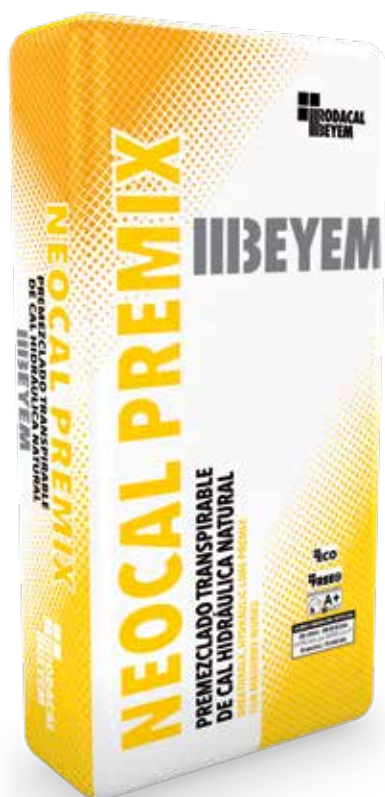
BEYEM NEOCAL MUR is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Beige
Bulk density	≈ 1250 Kg/m <sup>3</sup>
Density of the mix	≈ 2000 Kg/m <sup>3</sup>
Grading	0 - 2 mm
Mixing water %	± 17%
Coverage	According to use
Tariff code	328.54.90.00
Final performances	
Type	G (Mortero prescrito)
Compressive strength	≥ 7,5 MPa
Capillary water absorption	≤ 0,5 kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,96 W/m·K
Reaction to fire	Euroclass A1
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,195

# BEYEM NEOCAL PREMIX

BREATHABLE, HYDRAULIC LIME PREMIXED MORTAR  
FOR MASONRY WORKS. NATURAL COMPOSITION



EN 998-2  
G



Indoor  
Environment Quality



More info:



## ■ ABOUT THIS PRODUCT

BEYEM NEOCAL PREMIX is a highly breathable, natural hydraulic lime (NHL) based premixed mortar for brickwork and masonry works, suitable for both building rehabilitation and new construction.

Formulated with natural hydraulic lime (NHL), natural pozzolan and organic additives. Allows to use local aggregates to make tailored-fit mortars for rehabilitation and refurbishment works of heritage buildings. Free of Portland cement. Indoor environment quality. Classified as A+ class according to Décret n°. 2011-321 (France). Free of radionuclides.

## ■ USE

Natural hydraulic lime (NHL) based premixed mortar for stonework, brickwork, wall repairs and masonry works. Suitable for both building rehabilitation and new construction. Specially designed to be mixed with dry local aggregates for rehabilitation of historic and/or protected buildings due its high compatibility with traditional systems. Suitable in interior and exterior situations.

## ■ BENEFITS

- Mechanical strengths corresponding to lime mortars.
- Great performance Dosage 1:3 or 1:4.
- High water vapour permeability. Allows the wall to breathe.
- Great plasticity. Excellent adhesion.
- Compatible with old masonry brickworks/walls.
- Extended workability time and adjustment of pieces.
- Excellent finishing. Free of chlorides.
- Suitable for internal or external works.
- New construction and building rehabilitation.
- Natural bacteriostatic and natural fungistatic.
- Very low VOCs emissions.
- Radiation-free certificate.
- Mineral product.

## ■ PACKAGING

BEYEM NEOCAL PREMIX is packed 15 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Beige
Bulk density	≈ 700Kg/m <sup>3</sup> (premix)
Density of the mix	≈ 1900 - 2000 Kg/m <sup>3</sup> with 0-2 mm dry aggregate
Grading	0 - 300 μm
Mixing water %	≈ 15-19 %
Coverage	1:3 or 1:4 dosage with 0-2 mm dry aggregate
Tariff code	328.54.90.00
Final performances	
Type	Premixed mortar EN 998-2
Compressive strength	≥ 7,5 MPa (1:3) ≥ 5,0 MPa (1:4)
Capillary water absorption	≤ 0,6 Kg/m <sup>2</sup> min <sup>1/2</sup> con árido seco 0-2 mm
Water vapour permeability	μ ≤ 15 with dry 0-2 mm aggregate
Reaction to fire	Euroclass A1
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,583

Building  
Rehabilitation.  
Lime Mortars









# Flooring mortars



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## FLOORING MORTARS

### ■ Function

Floorings perform various functions. The most important are as follows:

1. Lay-flat properties: Levelling and flattening of irregular substrates before applying coatings.
2. Resistance: Increases the resistance of the flooring or screeding and its abrasion resistance.
3. Absorption: Provides a definite and constant absorption along the entire substrate.

And moreover:

4. Distribution of the load.
5. Homogeneity.
6. Final coating or flooring.
7. System component. Barrier layer.
8. Hygiene and occupational health and safety in the workplace

### ■ EN 13813 Classification

This norm allows to classify the pre-blended mortars on the basis of the nature of the binders employed and on their physical and mechanical characteristics:

- (CT) Cementitious screed materials and floor screeds
- (CA) Calcium sulphate screed materials and floor screeds
- (MA) Magnesite screed materials and floor screeds
- (AS) Mastic asphalt screed materials and floor screeds
- (SR) Synthetic resin screed materials and floor screeds

### ■ Requirements

Fresh state:

- Good fluidity and ability to level by itself.
- Absence of segregation or sedimentation.
- Open time.
- Rapid increase of resistances.
- Fast drying and/or setting to reduce time and costs.
- Very good workability both in the manual application or machine application (pumping).

Hardened state:

- Smooth surface and free of cracks and pores/depressions.
- Homogeneous layer (without skin or film formation on the surface) and sedimentation free.
- Good adhesion on substrates.
- Good resistance to wear and tear and abrasion. Superficial hardness.
- Low shrinkage, hardening without cracking.
- Low emissions.

### ■ Main characteristics and designation

- (C) Compressive strength: It is designated with the letter C followed by the compressive strength class in  $\text{N/mm}^2$ , the value of which must be exceeded, based on the tabulated values.
- (F) Flexural strength: It is designated with the letter F followed by the bending resistance class in  $\text{N/mm}^2$ , the value of which must be exceeded, based on the tabulated values.
- (B) Bond strength: It is designated with the letter B followed by the traction resistance class in  $\text{N/mm}^2$ , the value of which must be exceeded, based on the tabulated values.

# BEYEM LEVEL

HIGH PERFORMANCE, POLYMER MODIFIED,  
FAST DRYING, SELF-LEVELLING COMPOUND



More info:



## ■ ABOUT THIS PRODUCT

BEYEM LEVEL is a high performance, polymer modified, fast drying, self-levelling compound. Pumpable. Formulated with cement, selected aggregates, additives and resins to improve adhesion and mechanical strengths. Especially suitable to receive all kind of lightweight finishes (epoxy or PU or PMMA system, ceramic or stone tiles, PVC sheet, wood flooring or carpets, etc.). Indoor environment quality. Classified A+ class according to Dècret n° 2011-321 (France). Free of radionuclides.

## ■ USE

Correction, rectification and levelling of irregular/uneven substrates with moderate or heavy traffic, both in rehabilitation and new floors. Especially suitable for levelling and flattening prior to the installation of all kind lightweight floor coverings (epoxy or PU or PMMA system, ceramic tiles, PVC sheet, wood flooring or carpets, etc.).

## ■ BENEFITS

- Quick drying and rapid hardening.
- Can receive light foot traffic a few hours after application.
- High mechanical strengths.
- Suitable for heavy traffic.
- Thickness from 2 mm to 20 mm.
- Easy to apply.
- Smooth and less pore surface.
- Great self-levelling power. Good air release.
- Excellent hardness.
- Very low VOCs emissions.
- Radiation-free certificate.

## ■ PACKAGING

BEYEM LEVEL is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1250 Kg/m <sup>3</sup>
Grading	0 - 1 mm
Mixing water %	± 21%
Pot life	≥ 30 min
Flow characteristics	≥ 13 cm Ø medium
Minimum thickness	3 mm
Maximum thickness	20 mm
Coverage	1,5 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CT C35 F10 B2,0
Surface hardening	5-10 h
Compressive strength	≥ 35 N/mm <sup>2</sup>
Flexural strength	≥ 10 N/mm <sup>2</sup>
Adhesion	≥ 2,0 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,172



# BEYEM LEVEL FAST

HIGH PERFORMANCE, POLYMER MODIFIED,  
FAST SETTING, SELF-LEVELLING COMPOUND



## ABOUT THIS PRODUCT

BEYEM LEVEL FAST is a high performance, polymer modified, fast setting, self-levelling compound. Pumpable. Formulated with cement, selected aggregates, additives and resins to improve adhesion and mechanical strengths. Especially suitable to provide a very smooth finish and receive resilient floors and all kind of lightweight finishes. Indoor environment quality. Classified A+ class according to Dècret n° 2011-321 (France). Free of radionuclides.

## USE

Rectification and smooth levelling of irregular/uneven substrates both in rehabilitation and new floors. Especially suitable for levelling and flattening prior to the installation of technical floors, all kind lightweight floor coverings (epoxy or PU or PMMA system, ceramic tiles, PVC sheet, wood flooring or carpets, etc.) and resilient floors.

## BENEFITS

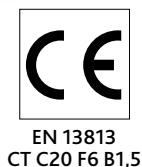
- Fast setting and rapid hardening.
- Can receive light foot traffic a few hours after application.
- Fast commissioning.
- Thickness from 0 mm to 6 mm.
- Excellent planimetry
- Easy to apply.
- Very smooth and less pore surface.
- Great self-levelling power. Good air release.
- Shrinkage compensated.
- Excellent hardness.
- Very low VOCs emissions.
- Radiation-free certificate.

## PACKAGING

BEYEM LEVEL FAST is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

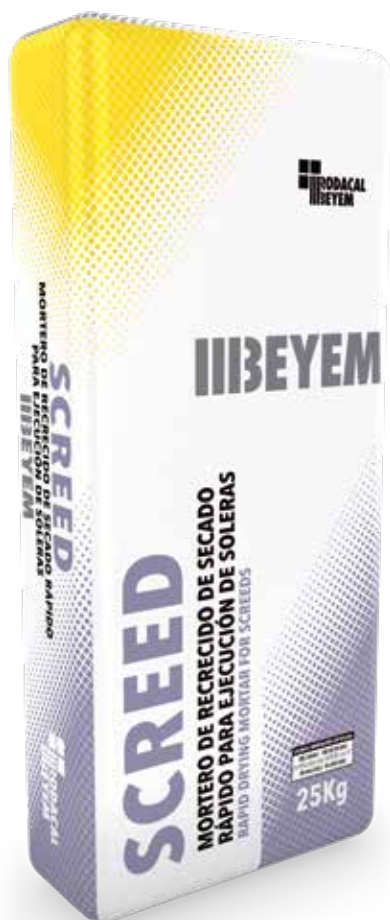
Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1200 Kg/m <sup>3</sup>
Grading	0 - 800 μm
Mixing water %	± 20%
Pot life	≥ 15-20 min
Flow characteristics	≥ 12 cm Ø medium
Tiempo de autonivelación	≥ 15 min
Minimum thickness	1 mm
Maximum thickness	6 mm
Coverage	1,6 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CT C20 F6 B1,5
Time to overcoat	≈ 12-24 h
Compressive strength	≥ 20 N/mm <sup>2</sup>
Flexural strength	≥ 6 N/mm <sup>2</sup>
Adhesion	≥ 1,5 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 μg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,181



More info:







EN 13813  
CT C25 F6



Indoor  
Environment Quality



More info:



## ■ ABOUT THIS PRODUCT

BEYEM SCREED normal setting, rapid drying cement-based mortar for bonded and unbonded screeds. Formulated with cement, selected aggregates and additives to improve mechanical strengths and control shrinkage. Especially suitable to provide a very smooth finish and receive resilient floors and all kind of lightweight finishes. Indoor environment quality. Classified A+ class according to Dècret n° 2011-321 (France). Free of radionuclides.

## ■ USE

Forming rapid drying screeds for fast commissioning. For bonding and unbonding screeds both in rehabilitation and new floors in interior and exterior situations, before installing ceramic tiles, natural stone, wood and other floor coverings.

## ■ BENEFITS

- Rapid drying and hardening.
- Fast commissioning. Set for foot traffic after 12 hours.
- Ready to receive ceramic tiles after 24 hours.
- Shrinkage compensated.
- Easy to apply.
- Suitable for laying heated screeds
- Thickness from 10 mm to 80 mm.
- Very low VOCs emissions.
- For interior and exterior situations.
- Radiation-free certificate.

## ■ PACKAGING

BEYEM SCREED is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1590 Kg/m <sup>3</sup>
Density of the mix	≈ 2100 Kg/m <sup>3</sup> (depending on compaction)
Grading	0 - 4 mm
Mixing water %	± 10%
Pot life	≈ 60 min
Thickness for bonded screeds	10 a 35 mm
Thickness for unbonded screeds	35 a 80 mm
Coverage	1,8 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CT C25 F6
Foot traffic	≈ 12 h
Time to overcoat	≈ 1-4 days depending on the type of flooring
Compressive strength	≥ 25 N/mm <sup>2</sup>
24h / 7 days	≥ 8 N/mm <sup>2</sup> / ≥ 16 N/mm <sup>2</sup>
Flexural strength	≥ 6 N/mm <sup>2</sup>
Total VOCs (28 days)	≤ 500 µg/m <sup>3</sup>
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,061

# BEYEM FLOOR COLOR

HIGH STRENGTH, COLORED  
LEVELLING FLOOR SCREED



EN 13813  
CT C30 F7 B1,5 A12

More info:



## ABOUT THIS PRODUCT

BEYEM FLOOR COLOR is a high strength colored levelling floor screed. Formulated with cement, selected aggregates, organic and inorganic additives, resins and natural pigments. Especially suitable for renovation and repair of deteriorated pavements and floors.

## USE

Renovation and repair of deteriorated pavements and floors. It allows to make decorative floors in a wide range of finishes and colors. BEYEM FLOOR COLOR ensures the uniformity and stability of the color throughout the applied thickness.

## BENEFITS

- Ready to use. Just add water.
- Great variety of colors and textures.
- No need to remove previous pavement.
- Suitable for foot and road traffic.
- For interior and exterior situations.
- Fiber-reinforced.
- High resistance to abrasion.
- Shrinkage compensated.
- High adhesion on concrete.
- Great impact resistance.
- Thickness from 10 mm to 40 mm.

## PACKAGING

BEYEM FLOOR COLOR is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1450 Kg/m <sup>3</sup>
Grading	0 - 1,5 mm
Mixing water %	± 17%
Pot life	≥ 30 min
Minimum thickness	10 mm
Maximum thickness	40 mm
Coverage	2,1 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	CT C30 F7 B1,5 A12
Set to light foot traffic	24 - 48 h
Commissioning time	72 - 96 h
Compressive strength	≥ 30 N/mm <sup>2</sup>
Flexural strength	≥ 7 N/mm <sup>2</sup>
Adhesion	≥ 1,5 N/mm <sup>2</sup>
Wear resistance (Böhme)	A12









# External Wall Insulation



## BEYEM AISLATERM THERMAL INSULATION SYSTEM

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## BEYEM-JAFEP THERMAL INSULATION SYSTEM (ETICs)

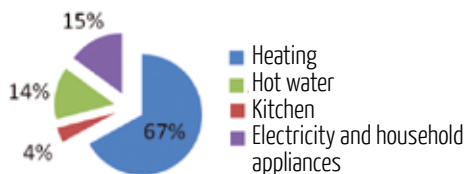
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## EXTERNAL WALL INSULATION

### ■ The importance of insulation in construction

In Europe, heating accounts for approximately 2/3 of the total energy consumption of buildings.

Energy consumption in buildings



**Thermal insulation can further reduce energy consumption of our buildings.** Greater insulation entails less energy input. Furthermore, **due to the depletion of natural resources, energy price increases will continue, leaving only one possible method to reduce costs: energy savings.**

The better the insulation, lower is the energy required to create an interior climate and which in turn is lasting.

**Thermal insulation is the only material which pays for itself given the cost savings that it affords.**

As regards sustainability, insulation affords social, environmental and economic benefits as it enhances interior comfort, protects the environment and actively contributes to energy savings. Thus, the use of insulation in buildings is a powerful tool so as to combat climate change.

### ■ External thermal insulation composite system (ETICs)

The external thermal insulation composite system, known as ETICs, are recognised nowadays as the most efficient procedure for the insulation of a building given that, as its very name suggests, a SATe is undertaken carrying out a cladding of a building, reducing the energy lost therein through heat channels (or heat bridges) and eliminating the risk of condensation.



### ■ Advantages of external thermal insulation composite system (ETICs)

- Elimination of heat bridges. Continuous insulation, even in structure areas.
- Increased protection of structures against the effects of weather. Forged edge protection.
- Structure load reduction.
- Ideal solution for party walls, the forgotten part of the building.
- Water vapour permeable system. Reduction/elimination of the risk of condensation and interior mold.
- Increased thermal inertia in the building given that the wall is located in the interior of the insulation.
- Perfect solution for facade pathologies. Problems such as cracks, efflorescence, peeling paint etc. which are remedied by the mere installation of the system.

- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. Avoids the need for a double wall. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.
- Various aesthetic alternatives. Wide range of colours and different insulation and finish
- solutions. Gives a face lift to the facade and increases the building's value.



### ■ Intended use of the system

The Beyem-Jafep system is intended to be used as an external thermal insulation for building walls. The walls may be made of masonry (bricks, blocks) or concrete (cast on site or as prefabricated panels) having an A1 to A2-s2, d0 reaction to fire classification, according to the UNE-EN 13501-1 or A1 Standard according to the Decision 96/603/EC. The system is designed to give the wall to which it is applied to satisfactory thermal insulation. The Beyem-Jafep system is made up of nonbearing construction elements and contributes to the durability of the substrate by providing protection from the effects of natural agents.



This system can be used on vertical walls, both in new construction as well as refurbishment (retrofit) works and it can be similarly used on horizontal or inclined surfaces which are not exposed to rainwater.

The Beyem-Jafep system has the European Technical Assessment ETA 16/0129, published by the **Eduardo Torroja Institute of Building Sciences (IECC)**, notified body under Article 29 of Regulation (EU) No. 305/2011.



# BEYEM AISLATERM THERMAL INSULATION SYSTEM



## ■ ABOUT THIS PRODUCT

BEYEM AISLATERM SYSTEM is a thermal insulation system for facades based on the use of an ultra-light thermal insulation render, formulated with hydraulic binders, selected aggregates, expanded polystyrene, special additives and mineral pigments and several decorative finishes as BEYEM COLORTERM, BEYEM NEOCAL FINO, BEYEM THERMIDUR F, PETREX 5 MORTERO ACRÍLICO or PETREX 5 MORTERO AL POLISILOXANO.

## ■ USE

BEYEM AISLATERM SYSTEM is designed for using as a lightened multilayer coating for thermal insulation of facades, walls and under roofs. Interior and exterior. Specially suitable for building rehabilitation/renovation. The system is intended to provide the facing on which a satisfactory thermal insulation is applied. The system consists of BEYEM AISLATERM, ultra-light heat insulation render and different finishes depending on the desired decorative finish: BEYEM COLORTERM, high performance one coat mortar specially designed for BEYEM AISLATERM; BEYEM NEOCAL FINO, breathable and waterproof lime mortar for facade decoration suitable for the BEYEM AISLATERM system, BEYEM THERMIDUR F extra-fine, flexible, colored mineral coating for decorative finishing of facades; PETREX 5 MORTERO ACRÍLICO or PETREX 5 MORTERO AL POLISILOXANO.



## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications. All components are projectables.
- Suitable for any architectural form and uneven substrates. Direct application on the substrate.
- Eliminates thermal bridging in walls.
- Isolates and levels the surface at the same time.
- Continuous insulation. Avoid the "drum effect".
- Provides an acoustic improvement.
- Rainwater-proof and permeable to water vapour.
- Reduction/elimination of the risk of condensation and interior molds.
- Perfect solution for façade pathologies.
- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.

## ■ SUBSTRATES

BEYEM AISLATERM system is suitable for:

### New buildings:

- Brickwork. Ceramic bricks.
- Renders. Cement based substrates and cement/lime based substrates.
- Concrete blocks.
- Concrete (treated with BEYEM UNIÓN MORTEROS adhesión promoter primer).

### Renovation/refurbishment works:

- Renders.
- One coat mortars.
- Brick-faced work.

In cases of rehabilitation and those cases not described consult the Technical Department.

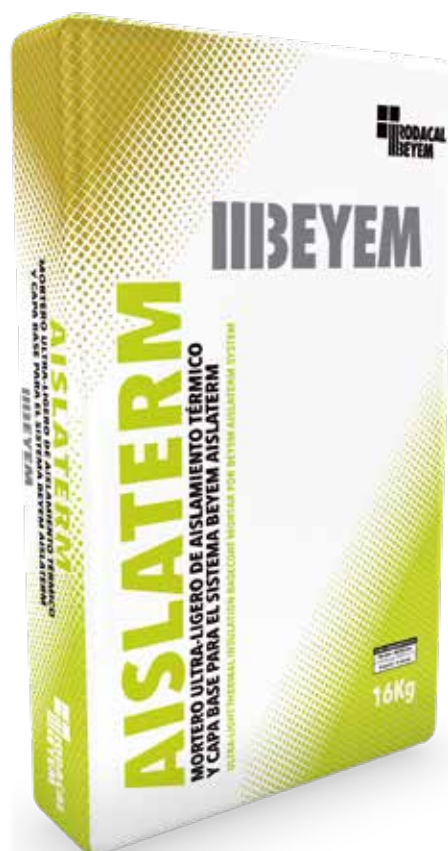
## ■ MAIN COMPONENTS

1. Thermal insulation mortar: **BEYEM AISLATERM**
2. Anchor: **Fasteners and glass fibre mesh (if necessary)**
3. Finishes:
  - A: Lightweight one coat mortar: **BEYEM COLORTERM**
  - B: Fine lime mortar: **BEYEM NEOCAL FINO**
  - C: Mineral anti-cracking system: **BEYEM ADHETERM + PRIMER (PETREX 5 LISO) + PETREX 5 MORTERO ACRÍLICO OR PETREX 5 MORTERO AL POLISILOXANO**
  - D: Mineral anti-cracking system: **BEYEM ADHETERM + BEYEM THERMIDUR F + BEYEM PRO H PLUS or HIDROFUGANTE LÍQUIDO JAFEP**



# BEYEM AISLATERM

ULTRA-LIGHT THERMAL INSULATION BASECOAT  
MORTAR FOR BEYEM AISLATERM SYSTEM



EN 998-1  
T CSI W<sub>c</sub> 1

More info:



## ■ ABOUT THIS PRODUCT

BEYEM AISLATERM is an ultra-light thermal insulation render, formulated with hydraulic binders, selected aggregates, expanded polystyrene, special additives and mineral pigments. Especially suitable for energy saving rehabilitation and ventilated facades. BEYEM AISLATERM is the basecoat of Beyem Aislaterm Thermal Insulation System.

## ■ USE

Ultra-light thermal insulation render for facades and walls both in interior and exterior situations. Especially suitable for energy saving rehabilitation and ventilated facades. For exterior application in a different use than the execution of ventilated facades, it is necessary to finish with BEYEM COLORTERM, high performance one coat mortar specially designed for BEYEM AISLATERM; BEYEM NEOCAL FINO, breathable and waterproof lime mortar for facade decoration suitable for the BEYEM AISLATERM system, BEYEM THERMIDUR F extra-fine, flexible, colored mineral coating for decorative finishing of facades; PÉTREX 5 MORTERO ACRÍLICO or PÉTREX 5 MORTERO AL POLISILOXANO.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Suitable for any architectural form and uneven substrates. Direct application on the substrate.
- Eliminates thermal bridging in walls.
- Continuous insulation. Avoid the "drum effect".
- Great workability.
- Rainwater-proof and permeable to water vapour. Prevents condensations.
- New construction and rehabilitation. Both interior and exterior situations.

## ■ PACKAGING

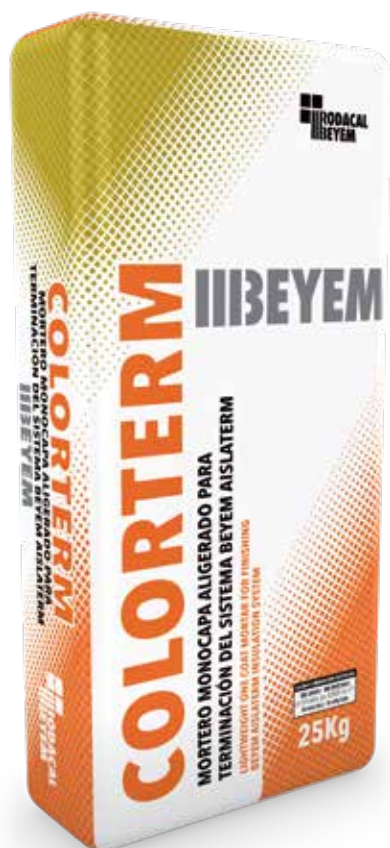
BEYEM AISLATERM is packed 16 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey or white
Bulk density	≈ 300 Kg/m <sup>3</sup>
Density of the mix	≈ 500 Kg/m <sup>3</sup>
% Particles larger than 1 mm	< 15 %
Mixing water, %	± 79 %
Minimum thickness per layer	20 mm
Maximum thickness per layer	30 mm
Maximum application thickness	60 mm
Coverage	≈ 3,0 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	T CSI W <sub>c</sub> 1
Adhesion after weathering cycles	≥ 0,10 MPa
Compressive strength	CSI
Capillary water absorption	≤ 0,4 Kg/m <sup>2</sup> min <sup>1/2</sup>
Water vapour permeability	μ ≤ 15
Thermal conductivity	T1 (0,068 W/m·K)
Reaction to fire	Class A2



# BEYEM COLORTERM LIGHTWEIGHT, SCRAPED FINISH, RAINWATER-PROOF ONE COAT MORTAR FOR FINISHING BEYEM AISLATERM THERMAL INSULATION SYSTEM



EN 998-1  
OC CSIII W<sub>c</sub> 2

More info:



## ■ ABOUT THIS PRODUCT

BEYEM COLORTERM is a lightweight rainwater-proof one coat mortar for decoration of facades. Formulated with white cement, selected and lightweight aggregates, special additives and inorganic pigments. It allows constant hygrometric exchange between the substrate and the environment. BEYEM COLORTERM is part of thermal insulation system Beyem Aislaterm..

## ■ USE

Mineral and rainwater-proof one coat mortar for facades, brickwork and concrete block enclosures. Rough and scraped finishes. Suitable for walls and ceilings both in interior and exterior situations, manually or mechanically. New construction and rehabilitation. Through coloured for low maintenance. Especially suitable for finishing Beyem Aislaterm thermal insulation system.

## ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Good mechanical strengths.
- For finishing and protecting thermal insulation basecoat Beyem Aislaterm.
- Lightweight. Excellent workability.
- Rough and scraped finishes.
- Rainwater-proof and permeable to water vapour.
- Low maintenance.
- Suitable for internal and external walls.
- New construction and rehabilitation.
- Through-coloured render. Wide range of colours.

## ■ PACKAGING

BEYEM COLORTERM is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Colour chart
Bulk density	≈ 1050 Kg/m <sup>3</sup>
Density of the mix	≈ 1550 Kg/m <sup>3</sup>
% Particles larger than 1 mm	< 12 %
Mixing water,%	± 25 %
Minimum finishing thickness	10 mm
Maximum layer thickness	15 mm
Coverage	≈ 12 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	OC CSIII W <sub>c</sub> 2
Adhesion after weathering cycles	≥ 0,50 MPa
Compressive strength	≥ 3,5 MPa
Shrinkage	≤ 0,2 Kg/m <sup>2</sup> min <sup>1/2</sup>
Capillary water absorption	≤ 1 ml/cm <sup>2</sup> , after 48 h
Water vapour permeability	μ ≤ 15
Thermal conductivity	0,35 W/(m·K)
Reaction to fire	Class A1

# PÉTREX 5 LISO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

Primer and protector for exterior walls and facades based on emulsion of acrylic copolymers. Waterproof and washable. High resistance to weathering, saltpetre and abrasion. The quality of its emulsion waterproofs the facade maintaining the correct breathability. It has a good coverage and performance. Formulated with micronized stone fillers that provide hardness and resistance to the product without losing its extraordinary smoothness. It avoids the absorption of water by its waterproofing properties while allowing the breathability facilitating the expulsion of moisture from the interior of the walls.

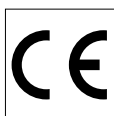
## ■ BENEFITS

- Ready to use
- Extraordinary smoothness
- Waterproof to rainwater
- Permeable to water vapor (breathable)

## ■ PACKAGING

PÉTREX 5 LISO is packed in 4 L and 15 L plastic pails.

# PÉTREX 5 MORTERO ACRÍLICO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

PÉTREX 5 MORTERO ACRÍLICO is a ready to use, thick layer mortar for facades, based on a combination of acrylic resins and pigments of high strength and light fastness, which provides resistant, elastic and waterproof finishes and high covering power. It incorporates in its formulation a "guide aggregate" of selected granulometry to facilitate its application, always depositing the exact thickness that is required. We present three finishes:

**Thick** (with aggregates up to 2 mm)

**Fine** (with aggregates up to 1 mm)

**TX** (with uniform aggregates of 1,5 mm)

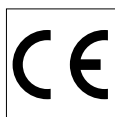
## ■ BENEFITS

- Ready to use
- Incorporates the exclusive Jafep anti-humidity development, formulated based on specific retarding additives of the different pathologies that produce moisture in the substrates.
- Semi-elastic (resistant and anti-cracks)
- Waterproof to rain water
- Permeable to water vapor (breathable)
- Rough texture that conceals imperfections
- Anti-mold preservative (contains n-octyl isothiazolone, carbendazim, diuron)

## ■ PACKAGING

PÉTREX 5 MORTERO ACRÍLICO is packed in 25 Kg plastic pails

# PÉTREX 5 MORTERO AL POLISILOXANO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

PÉTREX 5 MORTERO AL POLISILOXANO is a ready to use, thick layer mortar for facades, based on a combination of acrylic resins and pigments of high strength and light fastness, which provides resistant, elastic and waterproof finishes and high covering power. Additivated with polysiloxanes that give the coating a high waterproof power and high breathability. It also incorporates in its formulation a "guide aggregate" of selected granulometry to facilitate its application, always depositing the exact thickness that is required. We present three finishes:

**Thick** (with aggregates up to 2 mm)

**Fine** (with aggregates up to 1 mm)

**TX** (with uniform aggregates of 1,5 mm)

## ■ BENEFITS:

- Ready to use
- Incorporates the exclusive Jafep anti-humidity development, formulated based on specific retarding additives of the different pathologies that produce moisture in the substrates.
- Semi-elastic (resistant and anti-cracks)
- Waterproof to rain water
- Permeable to water vapor (breathable)
- Rough texture that conceals imperfections
- Anti-mold preservative (contains n-octyl isothiazolone, carbendazim, diuron)

## ■ PACKAGING

PÉTREX 5 MORTERO AL POLISILOXANO is packed in 25 Kg plastic pails

# BEYEM THERMIDUR F

EXTRA-FINE, FLEXIBLE, COLORED MINERAL COATING FOR DECORATIVE FINISHING OF BEYEM-JAFEP ETICS

External Wall  
Insulation



ETAG 004

More info:



## ■ ABOUT THIS PRODUCT

BEYEM THERMIDUR F is a colored, extra-fine and flexible mineral coating for decorative finishing of the BEYEM-JAFEP ETIC system. Provides a natural waterproof finish with great design possibilities and decorative effects. It allows the application on large surfaces without working/fractionation joints.

## ■ BENEFITS

- Rainwater-proof and permeable to water vapour.
- Flexible: high deformation capacity. Low modulus of elasticity.
- Good mechanical strengths.
- Excellent workability.
- High adhesion.
- Low maintenance.
- Reinforced with microfibre.

## ■ PACKAGING

BEYEM THERMIDUR F is packed in 7 kg plastic pails.

# Beyem-Jafep Classic ETICs



## ■ ABOUT THIS PRODUCT

BEYEM-JAFEP CLASSIC ETIC system is an external thermal insulation system for facades based on the use of stabilised expanded polystyrene -EPS- as insulating material and the use of flexible and high-performance finishes of acrylic mortar, polysiloxane mortar or mineral coating, in various grain sizes and colours.

## ■ USE

BEYEM-JAFEP CLASSIC ETIC system is intended to be used as an external thermal insulation for building walls. The walls may be made of masonry (bricks, blocks) or concrete (cast on site or as prefabricated panels). The system is designed to give the wall to which it is applied satisfactory thermal insulation. This ETICs can be used on new or existing (renovation) facades. It can also be used on horizontal or inclined surfaces which are not exposed to rain water. The system is made up of nonbearing construction elements and contributes to the durability of the substrate by providing protection from the effects of natural agents.

## ■ BENEFITS

- Traditional ETIC system.
- Excellent price/performance ratio.
- The lightest solution.
- Comply with regulation.
- Rainwater proof and permeable to water vapour.
- Perfect solution for facade pathologies.
- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.
- European Approval pursuant to ETA 16/0129.

## ■ TECHNICAL DATA

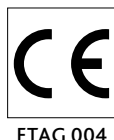
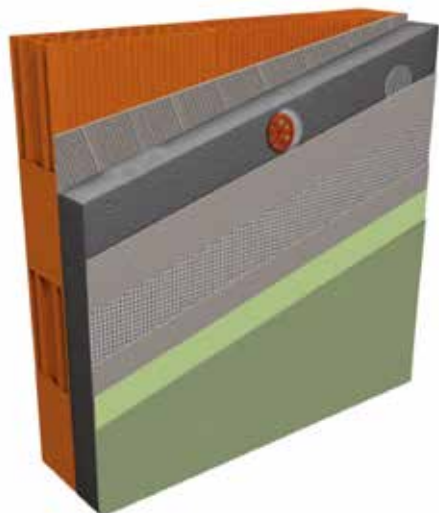
Final performances	
Classification	ETA 16/0129 ETAG 004
Water absorption	1 h < 1 kg/m <sup>2</sup> 24 h < 0,5 kg/m <sup>2</sup>
Water vapour permeability	< 1 m (equivalent air thickness)
Bond strength	
Adhesive onto substrate	Initial state ≥ 0,25 MPa 48 h immersion + 2 h drying ≥ 0,08 MPa 48 h immersion + 7 days drying ≥ 0,25 MPa
Adhesive onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,03 MPa 48 h immersion + 7 days drying ≥ 0,08 MPa
Base coat onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,08 MPa
Impact resistance	Category II (Petrex 5 Mortero Acrílico) Category III (Petrex 5 Mortero al Polissiloxano and Beyem Thermidur F)
EPS insulation board	
Thicknesses	40-200 mm
Thermal conductivity	0,037 W/mK
Density	15-20 Kg/m <sup>3</sup>

More info:





# Beyem-Jafep Classic Graphite ETICs



## ■ ABOUT THIS PRODUCT

BEYEM-JAFEP CLASSIC GRAPHITE ETIC system is an external thermal insulation system for facades based on the use of stabilised expanded graphite polystyrene -EPS- as insulating material and the use of flexible and high-performance finishes of acrylic mortar, polysiloxane mortar or mineral coating, in various grain sizes and colours.

## ■ USE

BEYEM-JAFEP CLASSIC GRAPHITE ETIC system is intended to be used as an external thermal insulation for building walls. The walls may be made of masonry (bricks, blocks) or concrete (cast on site or as prefabricated panels). The system is designed to give the wall to which it is applied satisfactory thermal insulation. This ETICs can be used on new or existing (renovation) facades. It can also be used on horizontal or inclined surfaces which are not exposed to rain water. The system is made up of nonbearing construction elements and contributes to the durability of the substrate by providing protection from the effects of natural agents.

## ■ BENEFITS

- Graphite EPS: Increased insulation capacity.
- Excellent price/performance ratio.
- The lightest solution.
- Comply with regulation.
- Rainwater proof and permeable to water vapour.
- Perfect solution for facade pathologies.
- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.
- European Approval pursuant to ETA 16/0129.

## ■ TECHNICAL DATA

Final performances	
Classification	ETE 16/0129 ETAG 004
Water absorption	1 h < 1 kg/m <sup>2</sup> 24 h < 0,5 kg/m <sup>2</sup>
Water vapour permeability	< 1 m (equivalent air thickness)
Bond strength	
Adhesive onto substrate	Initial state ≥ 0,25 MPa 48 h immersion + 2 h drying ≥ 0,08 MPa 48 h immersion + 7 days drying ≥ 0,25 MPa
Adhesive onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,03 MPa 48 h immersion + 7 days drying ≥ 0,08 MPa
Base coat onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,08 MPa
Impact resistance	Category II (Petrex 5 Mortero Acrílico) Category III (Petrex 5 Mortero al Polissiloxano and Beyem Thermidur F)
EPS Graphite insulation board	
Thicknesses	40-200 mm
Thermal conductivity	0,032 W/mK
Density	15-20 Kg/m <sup>3</sup>

More info:



# Beyem-Jafep Forte ETICs



## ■ ABOUT THIS PRODUCT

BEYEM-JAFEP FORTE ETIC system is an external thermal insulation system for facades based on the use of extruded polystyrene -XPS- as insulating material and the use of flexible and high-performance finishes of acrylic mortar, polysiloxane mortar or mineral coating, in various grain sizes and colours.

## ■ USE

BEYEM-JAFEP FORTE ETIC system is intended to be used as an external thermal insulation for building walls. The walls may be made of masonry (bricks, blocks) or concrete (cast on site or as prefabricated panels). The system is designed to give the wall to which it is applied satisfactory thermal insulation. This ETICs can be used on new or existing (renovation) facades. It can also be used on horizontal or inclined surfaces which are not exposed to rain water. The system is made up of nonbearing construction elements and contributes to the durability of the substrate by providing protection from the effects of natural agents.

## ■ BENEFITS

- Reinforced and improved ETIC system.
- Increased dimensional stability.
- Reduced water absorption. Rainwater proof and permeable to water vapour.
- Increased insulation capacity.
- Comply with regulation.
- Perfect solution for facade pathologies.
- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.
- European Approval pursuant to ETA 16/0129.

## ■ TECHNICAL DATA

Final performances	
Classification	ETE 16/0129 ETAG 004
Water absorption	1 h < 1 kg/m <sup>2</sup> 24 h < 0,5 kg/m <sup>2</sup>
Water vapour permeability	< 1 m (equivalent air thickness)
Bond strength	
Adhesive onto substrate	Initial state ≥ 0,25 MPa 48 h immersion + 2 h drying ≥ 0,08 MPa 48 h immersion + 7 days drying ≥ 0,25 MPa
Adhesive onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,03 MPa 48 h immersion + 7 days drying ≥ 0,08 MPa
Base coat onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,08 MPa
Impact resistance	Category III (Petrex 5 Mortero Acrílico) Category II (Petrex 5 Mortero al Polissiloxano and Beyem Thermidur F)
XPS insulation board	
Thicknesses	30-200 mm
Thermal conductivity	0,034 W/mK (insulation boards ≤ 60 mm) 0,036 W/mK (insulation boards > 60 mm)
Density	30-40 Kg/m <sup>3</sup>

More info:



# Beyem-Jafep Acoustic ETICs



## ■ ABOUT THIS PRODUCT

BEYEM-JAFEP ACOUSTIC ETIC system is an external thermal insulation system for facades based on the use of mineral wool -MW- as insulating material and the use of flexible and high-performance finishes of acrylic mortar, polysiloxane mortar or mineral coating, in various grain sizes and colours.

## ■ USE

BEYEM-JAFEP ACOUSTIC ETIC system is intended to be used as an external thermal insulation for building walls. The walls may be made of masonry (bricks, blocks) or concrete (cast on site or as prefabricated panels). The system is designed to give the wall to which it is applied satisfactory thermal insulation. This ETICs can be used on new or existing (renovation) facades. It can also be used on horizontal or inclined surfaces which are not exposed to rain water. The system is made up of nonbearing construction elements and contributes to the durability of the substrate by providing protection from the effects of natural agents.

## ■ BENEFITS

- Mineral ETIC system.
- Acoustic insulation.
- Excellent fire resistance.
- Comply with regulation.
- Highly breathable. Excellent permeability to water vapour. Reduction/elimination of the risk of condensation and interior molds.
- Perfect solution for facade pathologies.
- Ideal for the refurbishment of inhabited buildings, given that the installation is carried out entirely on the exterior. No useful surface area is lost in the dwelling, given that its interior dimensions remain the same.
- European Approval pursuant to ETA 16/0129.

## ■ TECHNICAL DATA

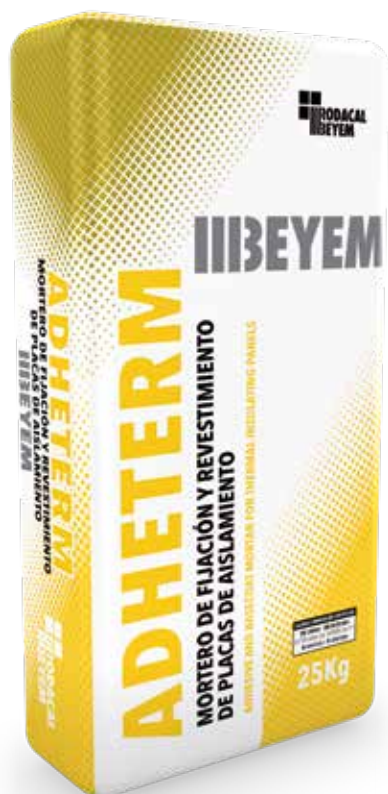
Final performances	
Classification	ETE 16/0129 ETAG 004
Water absorption	1 h < 1 kg/m <sup>2</sup> 24 h < 0,5 kg/m <sup>2</sup>
Water vapour permeability	< 1 m (equivalent air thickness)
Bond strength	
Adhesive onto substrate	Initial state ≥ 0,25 MPa 48 h immersion + 2 h drying ≥ 0,08 MPa 48 h immersion + 7 days drying ≥ 0,25 MPa
Adhesive onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,03 MPa 48 h immersion + 7 days drying ≥ 0,08 MPa
Base coat onto insulation board	Initial state ≥ 0,08 MPa After Hygrothermal cycles ≥ 0,08 MPa
Impact resistance	Category I (Petrex 5 Mortero Acrílico) Category II (Petrex 5 Mortero al Polissiloxano and Beyem Thermidur F)
MW insulation board	
Thicknesses	40-160 mm
Thermal conductivity	0,036 W/mK
Density	95-150 Kg/m <sup>3</sup>

More info:



# BEYEM ADHETERM

ADHESIVE AND BASECOAT MORTAR FOR EPS, XPS AND MW  
THERMAL INSULATING PANELS IN ETICS



### ■ ABOUT THIS PRODUCT

BEYEM ADHETERM is a polymer-modified, shrinkage compensated adhesive and basecoat mortar for EPS, XPS and MW thermal insulating panels in ETICS. Formulated with high strength cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Fiber-reinforced.

### ■ USE

Bonding and levelling thermal insulation panels (expanded polystyrene -EPS-, extruded polystyrene -XPS- and mineral wool -MW-) in ETICS. Bedding coat for meshcloth insulation systems.

### ■ BENEFITS

- Suitable for spray render and pump machines or manual applications.
- Rainwater-proof and permeable to water vapour.
- High deformability.
- Excellent impact resistance.
- High water retentivity.
- Great workability.
- High bond strength on EPS, XPS, MW and substrate.

### ■ PACKAGING

BEYEM ADHETERM is packed 25 kg plastic lined paper bags.

### ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1285 Kg/m <sup>3</sup>
Density of the mix	≈ 1550 Kg/m <sup>3</sup>
Grading	0-600 µm
Mixing water, %	± 21 %
Minimum thickness application as adhesive	≈ 2 cm
Maximum thickness application as adhesive	≈ 5 cm
Minimum thickness application as basecoat	≈ 3 mm
Maximum thickness application as basecoat	≈ 5 mm
Coverage	≈ 1,5-2,0 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Classification	ETE 16/0129 ETAG 004
Bond strength onto concrete (initial and immersion)	≥ 0,8 MPa
Bond strength onto EPS insulation board	≥ internal cohesion of the board
Compressive strength	≥ 8,0 MPa
Flexural strength	≥ 2,0 MPa
Thermal conductivity	0,47 W/m·K)
Reaction to fire	Euroclass F

More info:





# INSULATION BOARDS

## ■ ABOUT THIS PRODUCTS

EPS, EPS Graphite, XPS or MW Insulation boards. EN 13163/EN 13499 stabilised expanded polystyrene panels, EN 13164 Extruded polystyrene panel and EN 13162/EN 13500 mineralwool panel, both of them specially designed for ETICs. Available in thicknesses from 40 to 200 mm.



External Wall  
Insulation



EN 13163  
EN 13499



EN 13164

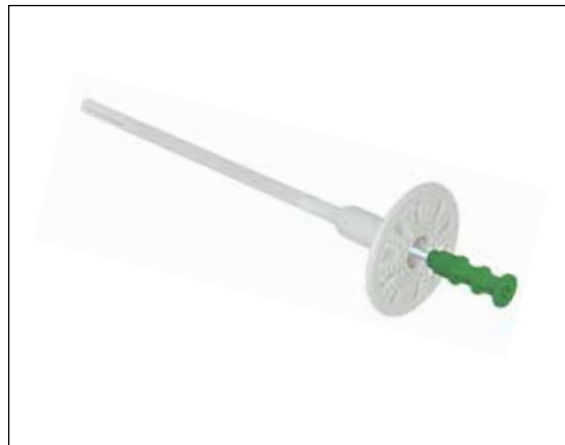


EN 13162  
EN 13500

# ANCHORS

## ■ ABOUT THIS PRODUCTS

Wide range of fasteners for anchoring insulation boards". Available with plastic or metal pin, hammer driven or screwed-in, short or extended expansion zone. Suitable for any wall configuration. Available in thicknesses from 70 to 260 mm.

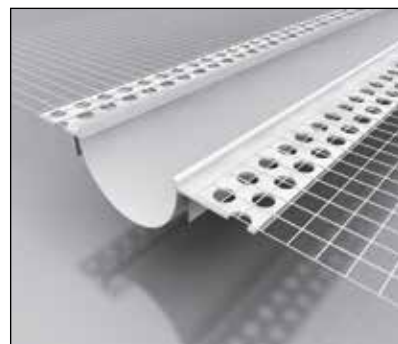
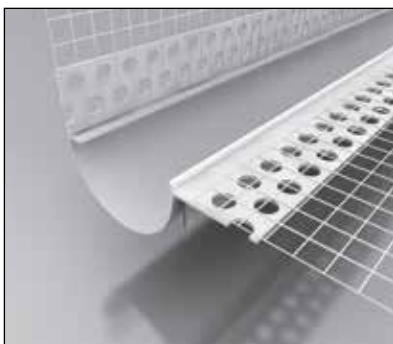
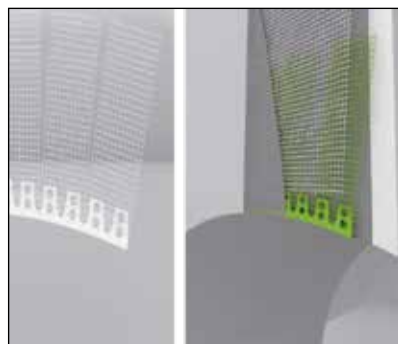
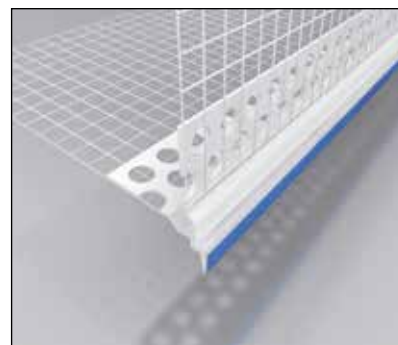
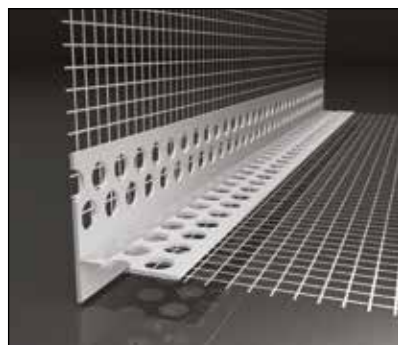
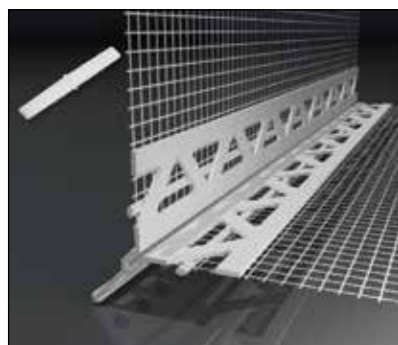
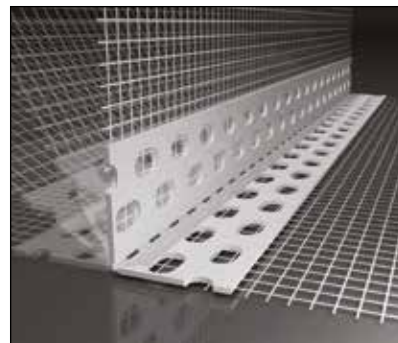
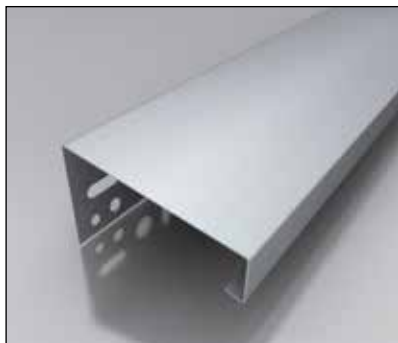


ETAG 014

# PROFILES

## ■ ABOUT THIS PRODUCTS

Base profiles (starter track), closing profiles, corner base profiles, window drip and window sill beads, window reveal beads with mesh, corner beads, stop and connecting beads, expansion beads, special profiles for Passive House, etc.



External Wall  
Insulation



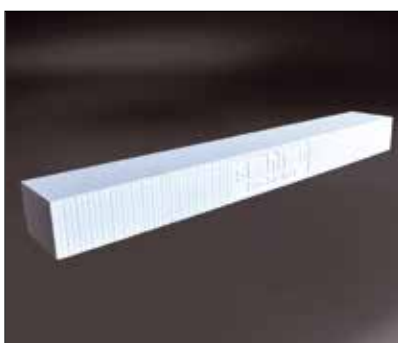
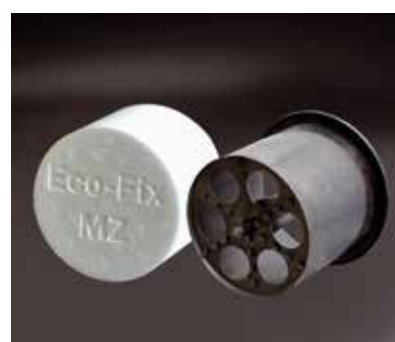
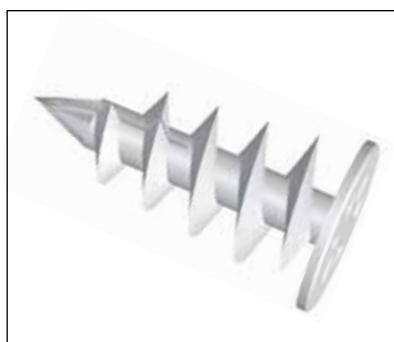
ETAG 004



# ANCILLARY ELEMENTS

## ■ ABOUT THIS PRODUCTS

Glass fibre mesh, setting tools for anchors and accessories, supplementary anchors plates and insulation holders, EPS and MW caps, etc.





# PÉTREX 5 LISO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

Primer and protector for exterior walls and facades based on emulsion of acrylic copolymers. Waterproof and washable. High resistance to weathering, saltpetre and abrasion. The quality of its emulsion waterproofs the facade maintaining the correct breathability. It has a good coverage and performance. Formulated with micronized stone fillers that provide hardness and resistance to the product without losing its extraordinary smoothness. It avoids the absorption of water by its waterproofing properties while allowing the breathability facilitating the expulsion of moisture from the interior of the walls.

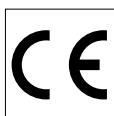
## ■ BENEFITS

- Ready to use
- Extraordinary smoothness
- Waterproof to rainwater
- Permeable to water vapor (breathable)

## ■ PACKAGING

PÉTREX 5 LISO is packed in 4 L and 15 L plastic pails.

# PÉTREX 5 MORTERO ACRÍLICO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

PÉTREX 5 MORTERO ACRÍLICO is a ready to use, thick layer mortar for facades, based on a combination of acrylic resins and pigments of high strength and light fastness, which provides resistant, elastic and waterproof finishes and high covering power. It incorporates in its formulation a "guide aggregate" of selected granulometry to facilitate its application, always depositing the exact thickness that is required. We present three finishes:

**Thick** (with aggregates up to 2 mm)

**Fine** (with aggregates up to 1 mm)

**TX** (with uniform aggregates of 1,5 mm)

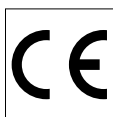
## ■ BENEFITS

- Ready to use
- Incorporates the exclusive Jafep anti-humidity development, formulated based on specific retarding additives of the different pathologies that produce moisture in the substrates.
- Semi-elastic (resistant and anti-cracks)
- Waterproof to rain water
- Permeable to water vapor (breathable)
- Rough texture that conceals imperfections
- Anti-mold preservative (contains n-octyl isothiazolone, carbendazim, diuron)

## ■ PACKAGING

PÉTREX 5 MORTERO ACRÍLICO is packed in 25 Kg plastic pails

# PÉTREX 5 MORTERO AL POLISILOXANO



EN 1504-2

More info:



sistema **atmh**  
Pintura con **CONSERVANTE ANTIMOHO**

## ■ ABOUT THIS PRODUCT

PÉTREX 5 MORTERO AL POLISILOXANO is a ready to use, thick layer mortar for facades, based on a combination of acrylic resins and pigments of high strength and light fastness, which provides resistant, elastic and waterproof finishes and high covering power. Additivated with polysiloxanes that give the coating a high waterproof power and high breathability. It also incorporates in its formulation a "guide aggregate" of selected granulometry to facilitate its application, always depositing the exact thickness that is required. We present three finishes:

**Thick** (with aggregates up to 2 mm)

**Fine** (with aggregates up to 1 mm)

**TX** (with uniform aggregates of 1,5 mm)

## ■ BENEFITS:

- Ready to use
- Incorporates the exclusive Jafep anti-humidity development, formulated based on specific retarding additives of the different pathologies that produce moisture in the substrates.
- Semi-elastic (resistant and anti-cracks)
- Waterproof to rain water
- Permeable to water vapor (breathable)
- Rough texture that conceals imperfections
- Anti-mold preservative (contains n-octyl isothiazolone, carbendazim, diuron)

## ■ PACKAGING

PÉTREX 5 MORTERO AL POLISILOXANO is packed in 25 Kg plastic pails

# BEYEM THERMIDUR F

EXTRA-FINE, FLEXIBLE, COLORED MINERAL COATING FOR DECORATIVE FINISHING OF BEYEM-JAFEP ETICS



ETAG 004

More info:



## ■ ABOUT THIS PRODUCT

BEYEM THERMIDUR F is a colored, extra-fine and flexible mineral coating for decorative finishing of the BEYEM-JAFEP ETIC system. Provides a natural waterproof finish with great design possibilities and decorative effects. It allows the application on large surfaces without working/fractionation joints.

## ■ BENEFITS

- Rainwater-proof and permeable to water vapour.
- Flexible: high deformation capacity. Low modulus of elasticity.
- Good mechanical strengths.
- Excellent workability.
- High adhesion.
- Low maintenance.
- Reinforced with microfibre.

## ■ PACKAGING

BEYEM THERMIDUR F is packed in 7 kg plastic pails.











# Concrete Repair and Waterproofing Mortars



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## CONCRETE REPAIR AND WATERPROOFING MORTARS

### ■ Background. Regulations

Proper maintenance of concrete structures is essential to ensure its expected useful life. In the first place, there are many reasons behind the deterioration of these structures. Therefore, the repair of concrete structures is an activity which requires fully trained and specialised personnel in all stages of the process.

The EN 1504 Standard represents the culmination of 15 years of work of professionals of all the sectors involved in the repair of concrete structures.

This regulation standardises the repair activities and provides a framework to ensure the proper repair of structures.

In the EN 1504 standard characteristics, methods, principles and features are mentioned:

**Methods:** It is the system for executing the structure repairs.

**Principles:** These are based on physical-chemical foundations which lead to the prevention and/or stabilisation of the chemical or physical deterioration processes of the concrete, as well as the corrosion processes. It is the action to be carried out based on the deterioration grounds and the conditions under which the structure is found. In order for a product to cover a given principle one or several requirements of the characteristics must be complied with. There are 11 principles included in the EN 1504-9 Standard.

**Performance:** Is a product or system's ability to perform effective or durable repairs or protection without causing harmful effects on the original structure, for other structures, for location operators, for users, for third parties, and for the environment.

### ■ Table of solutions for each principle and method

Principle	Methods covered	Suitable products
1 (PI) Protection against ingress.	---	---
2 (MC) Moisture control.	2.3. Coating.	<b>Beyem Proof</b> <b>Beyem Proof Flexible</b>
3 (CR) Concrete Restoration.	3.1 Hand-applied mortar.	<b>Beyem R1 T</b> <b>Beyem R1 T Renodur</b> <b>Beyem R2 T Fast</b> <b>Beyem R3 T</b> <b>Beyem R4 T</b> <b>Beyem R4 Fluido</b>
	3.3 Spraying concrete or mortar.	<b>Beyem R1 T</b> <b>Beyem R1 T Renodur</b> <b>Beyem R2 T Fast</b> <b>Beyem R3 T</b> <b>Beyem R4 T</b> <b>Beyem R4 Fluido</b>

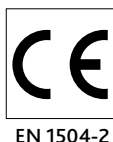
Principle	Methods covered	Suitable products
4 (SS) Structural strengthening.	4.2. Adding reinforcement anchored in pre-formed or drilled holes.	<b>Beyem Grout</b> <b>Beyem Grout Grueso</b>
	4.4. Adding mortar or concrete.	<b>Beyem R3 T</b> <b>Beyem R4 T</b> <b>Beyem R4 Fluido</b>
5 (PR) Physical resistance.	---	---
6 (RC) Resistance to chemicals.	---	---
7 (RP) Preserving or restoring passivity.	7.1 Increasing cover with additional mortar or concrete.	<b>Beyem R1 T</b> <b>Beyem R1 T Renodur</b> <b>Beyem R2 T Fast</b> <b>Beyem R3 T</b> <b>Beyem R4 T</b> <b>Beyem R4 Fluido</b>
	7.2 Replacing contaminated or carbonated concrete.	<b>Beyem R1 T</b> <b>Beyem R1 T Renodur</b> <b>Beyem R2 T Fast</b> <b>Beyem R3 T</b> <b>Beyem R4 T</b> <b>Beyem R4 Fluido</b>
8 (IR) Increasing resistivity.	8.3. Coating.	<b>Beyem Proof</b> <b>Beyem Proof Flexible</b>
9 (CC) Cathodic control.	---	---
10 (CP) Cathodic protection.	---	---
11 (CA) Control of anodic areas.	11.1 Active coating of the reinforcement.	<b>Beyem Armaduras</b>
	11.2 Barrier coating of the reinforcement.	<b>Beyem Armaduras</b>

Product	CE	Polymer modified	Thickness per layer	Fluid	Thixotropic	Fiber-reinforced
Beyem Proof	EN 1504-2	■	1-2 mm		■	
Beyem Proof Flexible	EN 1504-2	■	1-2 mm	■		
Beyem R1 T	EN 1504-3 EN 998-1	■	2-6 mm		■	■
Beyem R1 T Renodur	EN 1504-3 EN 998-1	■	2-6 mm		■	■
Beyem R2 T Fast	EN 1504-3	■	4-40 mm		■	■
Beyem R3T	EN 1504-3	■	5-35 mm		■	■
Beyem R4T	EN 1504-3	■	5-40 mm		■	■
Beyem R4 Fluido	EN 1504-3	■	10-80 mm	■		■
Beyem Grout	EN 1504-6		10-30 mm	■		
Beyem Grout Grueso	EN 1504-6		30-100 mm	■		
Beyem Armaduras	EN 1504-7	■	1 mm	■		



# BEYEM PROOF

ONE-COMPONENT, CEMENT-BASED, POLYMER MODIFIED MORTAR  
FOR CONCRETE SURFACE PROTECTION AND WATERPROOFING



## ■ ABOUT THIS PRODUCT

BEYEM PROOF is a one-component, cement based, polymer modified high strength mortar for concrete surface protection and waterproofing. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and waterproofing. Specially suitable for containing water. Approved for potable water contact. Sea-water and sulphate resistant.

## ■ USE

Concrete surface protection according to the MC and RI principles: Moisture Control (MC) by surface coating and Increasing Resistivity (IR) by limiting moisture content. Waterproofing of foundations, basement walls, cellars, concrete slabs, walls, tanks, swimming pools, cellars, planters, lift pits, balconies, terraces, bathrooms, showers... Protection of buildings against water damage.

## ■ BENEFITS

- Modified polymer mortar (PCC).
- High mechanical strengths. Excellent adhesion.
- Waterproof up to 1,2 atm of pressure positive lift.
- Suitable for pump machines and manual applications.
- Waterproof and permeable to water vapour. Fast hardening without cracking.
- Both internal and external use.
- Sea-water and sulphate resistant.
- Great plasticity.

## ■ PACKAGING

BEYEM PROOF is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Grading	0 - 800 µm
Mixing water %	± 21%
Maximum application thickness	2 - 5 mm
Coverage	2 mm thickness (without water pressure) ≈ 3 Kg/m <sup>2</sup> 5 mm thickness (with water pressure) ≈ 6 Kg/m <sup>2</sup>
Tariff code	3824.50.90.00
Final performances	
Type	Surface protection mortar for concrete EN 1504-2
Bond strength	≥ 1,0 MPa
Compressive strength	≥ 30,0 MPa
Capillary absorption and permeability to water	≤ 0,1 Kg/m <sup>2</sup> h <sup>1/2</sup>
Water vapour permeability	Clase I: SD < 5 m
Reaction to fire	Euroclass A1

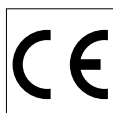
More info:





# BEYEM PROOF FLEXIBLE

TWO-COMPONENT, CEMENT-BASED, POLYMER MODIFIED  
FLEXIBLE MEMBRANE FOR CONCRETE SURFACE  
PROTECTION AND WATERPROOFING



EN 1504-2

More info:



## ■ ABOUT THIS PRODUCT

BEYEM PROOF FLEXIBLE is a two-component, cement based, polymer modified flexible membrane for concrete surface protection and waterproofing. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and waterproofing. Specially suitable for containing water. Approved for potable water contact. Specially suitable for applications subject to small movements, when flexibility is a must.

## ■ USE

Concrete surface protection according to the MC and RI principles: Moisture Control (MC) by surface coating and Increasing Resistivity (IR) by limiting moisture content. Waterproofing of foundations, basement walls, cellars, concrete slabs, walls, tanks, swimming pools, cellars, planters, lift pits, balconies, terraces, bathrooms, showers... Protection of buildings against water damage. Waterproofing of substrates that can undergo small movements or with little cracks (BEYEM PROOF FLEXIBLE absorbs micro-cracks up to 0.8 mm with thicknesses of 3 mm).

## ■ BENEFITS

- Modified polymer mortar (PCC).
- Excellent adhesion.
- High flexibility.
- Waterproof up to 7,5 atm of pressure positive lift.
- Suitable for spray machines and manual applications (by brush or thin trowel)
- Waterproof and permeable to water vapour. Fast hardening without cracking.
- Both internal and external use.
- Weather resistant.
- High protection against the effects of de-icing salts and freeze-thaw attack.

## ■ PACKAGING

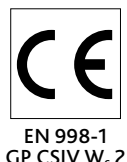
BEYEM PROOF FLEXIBLE is packed in pre-measured batches of 32 kg (24 kg plastic lined paper bags - Component A- and 8,0 kg plastic bottle - Component B-). Boxes of three units of 5 Kg (Component A) and three plastic bottles of 1.7 l (Component B).

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance and color	Component A Grey powder Component B White liquid
Grading	0 - 800 µm
Density of the mix	≈ 1660 Kg/m <sup>3</sup>
Maximum application thickness	2 - 5 mm
Coverage	2 mm thickness (without water pressure) ≈ 3 Kg/m <sup>2</sup> 5 mm thickness (with water pressure) ≈ 6 Kg/m <sup>2</sup>
Tariff code	Component A 3824.50.90.00 Component B 3209.10.00.00
Final performances	
Type	Surface protection mortar for concrete EN 1504-2
Bond strength	≥ 1,0 MPa
Capillary absorption and permeability to water	≤ 0,1 Kg/m <sup>2</sup> h <sup>1/2</sup>
Water vapour permeability	Clase I: SD < 5 m
Reaction to fire	Euroclass A1

# BEYEM R1 T

ONE-COMPONENT, THIXOTROPIC, LOW SHRINKAGE MORTAR  
FOR CONCRETE COSMETIC REPAIRS AND SURFACE LEVELING



## ABOUT THIS PRODUCT

BEYEM R1 T is a one-component, thixotropic, low shrinkage mortar for concrete cosmetic repairs and surface leveling. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Fiber-reinforced. Specially suitable for thin layer concrete surface repair works.

## USE

Cosmetic repair of precast concrete parts. Repair of the release of the surface grout of the concrete during the formwork operation. Repair of corners, damaged edges, arises and small cracks or irregularities in concrete or mortar. Sealing of pores. Fine render for the regularization and smoothing of prefabricated elements and concrete and mortar surfaces. Sealing of small joints without movement. Other non-structural repairs. Restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9). Repair of spalling and preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9) in non-reinforced concrete.

## BENEFITS

- Class R1 and GP CSIV Wc 2.
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- Thixotropic. Very good workability.
- Free of chlorides and organic fibers.
- Excellent re-profiling properties.
- Suitable for pump machines and manual applications.
- Both internal and external use. Smooth surface ready to paint.
- Superior workability.
- Rainwater-proof and permeable to water vapour.

## PACKAGING

BEYEM R1 T is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White or grey
Grading	0 - 600 µm
% Particles larger than 400 µm	< 15 %
Density of the mix	≈ 1580 Kg/m <sup>3</sup>
Pot life	≥ 1 h
Mixing water %	± 21 %
Minimum thickness por capa	2 mm
Maximum layer thickness	6 mm
Maximum thickness application	10 mm
Coverage	≈ 1,4 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R1
Adhesion	≥ 0,80 MPa
Compressive strength	≥ 10,0 MPa
Flexural strength	≥ 4,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Thermal compatibility. Part 1	No fissures
Water vapour permeability	µ ≤ 15
Capillary water absorption	≤ 0,2 Kg/m <sup>2</sup> min <sup>1/2</sup>
Thermal conductivity	0,47 W/m·K
Reaction to fire	Euroclass A1

# BEYEM R1 T RENODUR

ONE-COMPONENT, HIGHLY DEFORMABLE,  
LOW SHRINKAGE, THIXOTROPIC MORTAR  
FOR REPAIR AND RENOVATION OF WALLS



EN 1504-3  
R1



EN 998-1  
GP CSIV Wc 2

More info:



## ABOUT THIS PRODUCT

BEYEM R1 T RENODUR is a one-component, highly deformable, low shrinkage, thixotropic mortar for mortar for repair and renovation of walls. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Lightweight and fiber-reinforced. Specially suitable for rendering walls in rehabilitation works (paints, ceramic tiles, etc ...) and for the treatment of cracks in facades.

## USE

Thin layer deformable render for rehabilitation of facades and stable and anchored coatings. Levelling and smoothing of painted surfaces, vitreous mosaics and ceramic tiles well fixed to the substrate. Bonding bridge and cementitious primer for rendering mortars and acrylic mortars on low absorption substrates. Treatment of cracks in facade. Cosmetic repair of concrete according to EN 1504-3 Class R1. Beyem R1 T RENODUR is an anti-cracking system in combination with flexible and / or deformable coatings.

## BENEFITS

- Class R1 and GP CSIV Wc 2.
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- High deformability.
- Lightweight. Great plasticity.
- Ideal as support for acrylic mortars and silicone paints.
- Free of chlorides and organic fibers.
- Suitable for pump machines and manual applications.
- Both internal and external use. Surface ready to paint.

## PACKAGING

BEYEM R1 T RENODUR is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	White or grey
Grading	0 - 600 µm
% Particles larger than 400 µm	< 15 %
Density of the mix	≈ 1580 Kg/m <sup>3</sup>
Pot life	≥ 1 h
Mixing water %	± 21%
Minimum thickness por capa	2 mm
Maximum layer thickness	6 mm
Maximum thickness application	10 mm
Coverage	≈ 1,4 Kg/m <sup>2</sup> per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R1 GP CS IV Wc 2
Adhesion	≥ 0,80 MPa
Compressive strength	≥ 10,0 MPa
Flexural strength	≥ 4,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Thermal compatibility. Part 1	No fissures
Water vapour permeability	µ ≤ 15
Capillary water absorption	≤ 0,2 Kg/m <sup>2</sup> min <sup>1/2</sup>
Thermal conductivity	0,47 W/m·K
Reaction to fire	Euroclass A1

# BEYEM R2 T FAST

ONE-COMPONENT, THIXOTROPIC, LOW SHRINKAGE FAST SETTING  
MORTAR FOR NON-STRUCTURAL REPAIRS



More info:



## ABOUT THIS PRODUCT

BEYEM R2 Fast is a one-component, thixotropic, low shrinkage and high strength fast setting mortar for non-structural repair works. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Fiber-reinforced. Specially suitable for small repairs and anchorages. Fine finish.

## USE

Non-structural punctual concrete repairs, cavity filling, sub-frame anchorage and arrises. For the mounting of window frames, pipes and in general small repair works. Repairs of balconies corners, cornices, edges, etc... Vertical works that require a quick and fine finish.

Restoration works (Principle 3, method 3.1 and 3.3 of EN 1504-9 ). Repair of spalling and damaged concrete in buildings. Preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated.

## BENEFITS

- Class R2.
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- Thixotropic.
- Fibrorreforzado.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour.
- Both internal and external use. Fine finish surface ready to paint.
- Superior workability.

## PACKAGING

BEYEM R2 T FAST is packed 25 kg plastic lined paper bags.

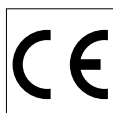
## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Bluish gray
Grading	0 - 2 mm
% Particles larger than 400 µm	< 15 %
Density of the mix	≈ 2010 Kg/m <sup>3</sup>
Pot life	± 8 min
Mixing water %	± 18%
Maximum layer thickness	40 mm
Coverage	≈ 17 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R2
Adhesion	≥ 0,80 MPa
Compressive strength	≥ 15,0 MPa 4 h ≥ 5,0 MPa 24 h ≥ 8,0 MPa
Flexural strength 28 days	≥ 5,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Thermal compatibility. Part 1	≥ 0,80 MPa
Reaction to fire	Euroclass A1



# BEYEM R3 T

ONE-COMPONENT, THIXOTROPIC, LOW SHRINKAGE  
AND HIGH STRENGTH MORTAR FOR CONCRETE REPAIR



EN 1504-3  
R3

More info:



## ■ ABOUT THIS PRODUCT

BEYEM R3 T is a one-component, thixotropic, low shrinkage and high strength mortar for concrete repair. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Fiber-reinforced. Specially suitable for concrete repair works.

## ■ USE

Regeneration and repair of structural and non-structural elements. Repair of precast concrete elements. Re-establishing structural integrity of concrete. Repairs of structural elements such as columns, bridge girders, water treatment plants, tunnels, pillars with large load transfer... Restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9). Repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works. Structural strengthening (Principle 4, method 4.4 of EN 1504-9). Increasing the bearing capacity of the concrete structure by adding mortar. Preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated.

## ■ BENEFITS

- Class R3.
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- Thixotropic.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour.
- Suitable for pump machines and manual applications.
- Both internal and external use. Surface ready to paint.
- Superior workability.

## ■ PACKAGING

BEYEM R3 T is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Grading	0 - 2 mm
Density of the mix	≈ 2000 Kg/m <sup>3</sup>
Pot life	≥ 40 min
Mixing water %	± 14,5 %
Minimum thickness por capa	5 mm
Maximum layer thickness	35 mm
Coverage	≈ 18 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R3
Adhesion	≥ 1,50 MPa
Compressive strength	≥ 25,0 MPa
Flexural strength	≥ 6,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Elastic module	≥ 15 GPa
Thermal compatibility. Part 1	≥ 1,50 MPa
Carbonation resistance	dk ≤ reference control MC(0,45)
Crack tendency - Coutinho ring	No fissures after 180 days
Reaction to fire	Euroclass A1

# BEYEM R4 T

ONE-COMPONENT, THIXOTROPIC, LOW SHRINKAGE  
AND HIGH STRENGTH MORTAR FOR CONCRETE REPAIR



EN 1504-3  
R4

More info:



## ABOUT THIS PRODUCT

BEYEM R4 T is a one-component, thixotropic, low shrinkage and high strength mortar for concrete repair. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Fiber-reinforced. Specially suitable for concrete repair works.

## USE

Regeneration and repair of structural and non-structural elements. Repair of precast concrete elements. Re-establishing structural integrity of concrete. Joint filling between concrete sections, prefabricated elements and expansion joints. Repairs of structural elements such as columns, bridge girders, water treatment plants, tunnels, pillars with large load transfer... Restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9). Repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works. Structural strengthening (Principle 4, method 4.4 of EN 1504-9). Increasing the bearing capacity of the concrete structure by adding mortar. Preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated.

## BENEFITS

- Class R4.
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- Thixotropic.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour.
- High modulus of elasticity.
- Suitable for pump machines and manual applications.
- Both internal and external use.
- Surface ready to paint.
- Superior workability.

## PACKAGING

BEYEM R4 T is packed 25 kg plastic lined paper bags.

## TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Grading	0 - 2 mm
Density of the mix	≈ 2200 Kg/m <sup>3</sup>
Pot life	≈ 35 min
Mixing water %	± 13,0 %
Minimum thickness por capa	5 mm
Maximum layer thickness	40 mm
Coverage	≈ 18 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R4
Adhesion	≥ 2,0 MPa
Compressive strength	≥ 45,0 MPa
Flexural strength	≥ 8,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Elastic module	≥ 20 GPa
Thermal compatibility. Part 1	≥ 2,0 MPa
Carbonation resistance	dk ≤ reference control MC(0,45)
Crack tendency - Coutinho ring	No fissures after 180 days
Reaction to fire	Euroclass A1

# BEYEM R4 FLUIDO

ONE-COMPONENT, LOW SHRINKAGE  
AND HIGH STRENGTH FLUID MORTAR FOR CONCRETE REPAIR



EN 1504-3  
R4

More info:



## ■ ABOUT THIS PRODUCT

BEYEM R4 FLUIDO is a one-component, low shrinkage and high strength fluid mortar for concrete repair. Formulated with special cements, selected aggregates, organic additives and resins to improve adhesion and mechanical strengths. Fiber-reinforced. Specially suitable for horizontal concrete repair works.

## ■ USE

Repairs of concrete in areas that are difficult to access. Structural integrity repair of horizontal concrete elements for direct disposal. Repair and reinforcement (pillars, columns, walls...) using formwork release by increasing the carrying capacity of the structures. Repair of small potholes in floors. Filling cavities, voids, gaps, cracks, and recesses. Restoration work (Principle 3, method 3.1 and 3.3 of EN 1504-9). Repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works. Structural strengthening (Principle 4, method 4.4 of EN 1504-9). Increasing the bearing capacity of the concrete structure by adding mortar. Preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated.

## ■ BENEFITS

- Class R4
- Modified polymer mortar (PCC).
- High mechanical strengths.
- High adhesion.
- High flowability. Pumpable.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour.
- High modulus of elasticity.
- Suitable for pump machines and manual applications.
- Both internal and external use.
- Good carbonation resistance.
- Low permeability.

## ■ PACKAGING

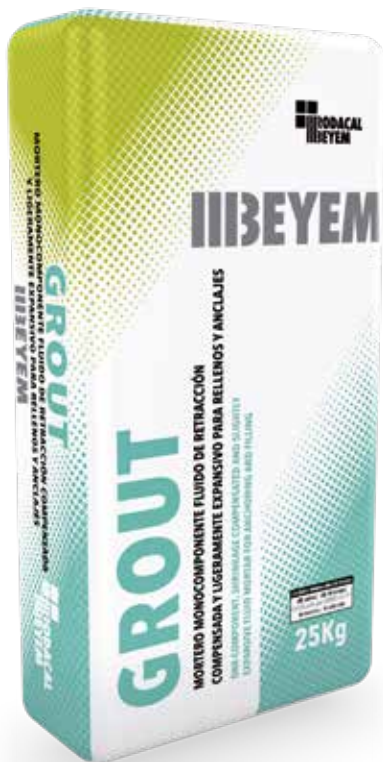
BEYEM R4 FLUIDO is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Grading	0 - 6 mm
Density of the mix	≈ 2150 Kg/m <sup>3</sup>
Pot life	≈ 45 min
Mixing water %	± 13,0 %
Minimum thickness por capa	10 mm
Maximum layer thickness	80 mm
Coverage	≈ 22 Kg/m <sup>2</sup> per cm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R4
Adhesion	≥ 2,0 MPa
Compressive strength	≥ 45,0 MPa
Flexural strength	≥ 8,0 MPa
Chloride ion content	≤ 0,05 %
Capillary absorption	≤ 0,5 Kg/m <sup>2</sup> h <sup>1/2</sup>
Elastic module	≥ 20 GPa
Thermal compatibility. Part 1	≥ 2,0 MPa
Carbonation resistance	dk ≤ reference control MC(0,45)
Crack tendency - Coutinho ring	No fissures after 180 days
Reaction to fire	Euroclass A1

# BEYEM GROUT

ONE-COMPONENT, SHRINKAGE COMPENSATED  
AND SLIGHTLY EXPANSIVE FLUID MORTAR FOR ANCHORING AND FILLING



More info:



## ■ ABOUT THIS PRODUCT

BEYEM GROUT is a one-component, shrinkage compensated and slightly expansive fluid mortar for fillings and precision anchorages. Formulated with special cements, selected aggregates, to improve adhesion and initial and final mechanical strengths.

## ■ USE

Anchoring of reinforcement steel bar, concrete or machinery. Reinforcement of concrete elements through formwork. Filling machinery bedplates. Fixing bolts. Filling cavities, voids, gaps and recesses in concrete. Filling by pouring under support plates ensuring perfect load transmission.

## ■ BENEFITS

- Easy to mix and apply.
- High initial and final mechanical strengths.
- High adhesion to concrete, mortar or steel reinforcement.
- Excellent flow properties. High self-levelling and filling power.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour. Slightly expansive.
- Free of aggressive substances for concrete and steel reinforcement.
- Both internal and external use.

## ■ PACKAGING

BEYEM GROUT is packed 25 kg plastic lined paper bags.

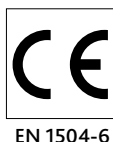
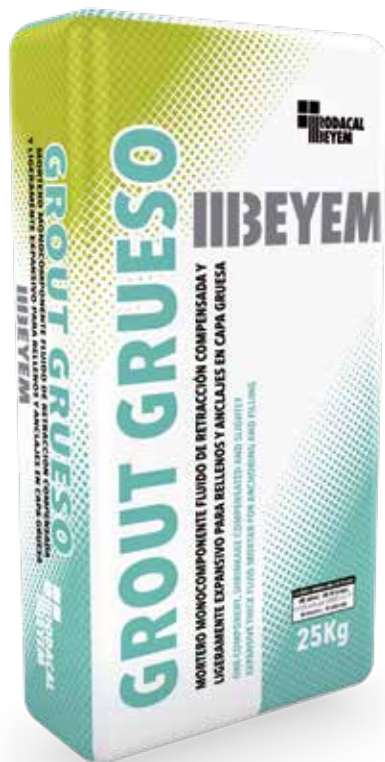
## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data		
Appearance	Powder	
Color	Grey	
Grading	0 - 4 mm	
Density of the mix	≈ 2200 Kg/m <sup>3</sup>	
Mixing water %	± 13,5 %	
Minimum thickness por capa	10 mm	
Maximum layer thickness	30 mm	
Coverage	≈ 20 Kg/m <sup>2</sup> per cm of thickness	
Tariff code	3824.50.90.00	
Final performances		
Type	Anchoring mortar (EN 1504-6)	
Resistance to pull up	Displacement < 0,6 mm (Load of 75 kN)	
Chloride ion content	≤ 0,05 %	
Crack tendency - Coutinho ring	No fissures after 180 days	
Reaction to fire	Euroclass A1	
Strength data		
% Mixing water	Compressive strength, MPa	
	24 h	28 days
12,0 %	≥45	≥70
13,5 %	≥35	≥60
15,0 %	≥25	≥55



# BEYEM GROUT GRUESO

ONE-COMPONENT, SHRINKAGE COMPENSATED AND SLIGHTLY EXPANSIVE FLUID MORTAR FOR ANCHORING AND FILLING IN THICK LAYERS



More info:



## ■ ABOUT THIS PRODUCT

BEYEM GROUT GRUESO is a one-component, shrinkage compensated and slightly expansive fluid mortar for fillings and precision anchorages in thick layers. Formulated with special cements, selected aggregates, to improve adhesion and initial and final mechanical strengths.

## ■ USE

Anchoring of reinforcement steel bar, concrete or machinery. Reinforcement of concrete elements through formwork. Filling machinery bedplates. Fixing bolts. Filling cavities, voids, gaps and recesses in concrete. Filling by pouring under support plates ensuring perfect load transmission.

## ■ BENEFITS

- Easy to mix and apply.
- High initial and final mechanical strengths.
- High adhesion to concrete, mortar or steel reinforcement.
- Excellent flow properties. High self-levelling and filling power.
- Free of chlorides and organic fibers.
- Very low shrinkage behaviour. Slightly expansive.
- Free of aggressive substances for concrete and steel reinforcement.
- Both internal and external use.

## ■ PACKAGING

BEYEM GROUT GRUESO is packed 25 kg plastic lined paper bags.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data		
Appearance	Powder	
Color	Grey	
Grading	0 - 10 mm	
Density of the mix	≈ 2150 Kg/m³	
Mixing water %	± 12,5 %	
Minimum thickness por capa	30 mm	
Maximum layer thickness	100 mm	
Coverage	≈ 23 Kg/m² per cm of thickness	
Tariff code	3824.50.90.00	
Final performances		
Type	Anchoring mortar (EN 1504-6)	
Resistance to pull up	Displacement < 0,6 mm (Load of 75 kN)	
Chloride ion content	≤ 0,05 %	
Crack tendency - Coutinho ring	No fissures after 180 days	
Reaction to fire	Euroclass A1	
Strength data		
% Mixing water	Compressive strength, MPa	
	24 h	28 days
	12,0 %	≥45 ≥70
	13,5 %	≥35 ≥60
	15,0 %	≥25 ≥55

# BEYEM ARMADURAS

ONE-COMPONENT, POLYMER-MODIFIED  
CEMENT-BASED BONDING PRIMER  
FOR REINFORCEMENT CORROSION PROTECTION



EN 1504-7

## ■ ABOUT THIS PRODUCT

BEYEM ARMADURAS is a one-component, polymer-modified cement-based bonding primer for reinforcement corrosion protection. Formulated with sulfate resistant cement, silica fume, synthetic resin, active pigments and last generation migratory inhibitors. Specially suitable in concrete repair as reinforcement corrosion protection.

## ■ USE

Reinforcement corrosion protection in concrete repair works. Control of anodic areas (Principle 11, methods 11.1 and 11.2 of EN 1504-9). Painting reinforcement steel bars with active coatings and barrier coatings. Preventive protection layer in reinforcements. Primer, bonding layer and adhesion promoter in reinforcements. Adhesion layer before application of structural repair mortars BEYEM.

## ■ BENEFITS

- Modified polymer mortar (PCC).
- High mechanical strengths.
- Easy to mix, just add water. User friendly application.
- High adhesion to concrete or steel reinforcement.
- Excellent flow properties. High self-levelling power.  
Can be brushed or spray applied.
- Allows control of covering.
- Solvent free.
- Barrier effect against water.
- Resistant to ice and chloride penetration.
- Compatible with BEYEM range of concrete repair products.

## ■ PACKAGING

BEYEM ARMADURAS is packed in 5 kg plastic pails.

## ■ TECHNICAL DATA

Product identity. Properties of mixture and application data	
Appearance	Powder
Color	Grey
Bulk density	≈ 1000 Kg/m <sup>3</sup>
Density of the mix	≈ 1900 Kg/m <sup>3</sup>
Pot life	≈ 75 min
Mixing water %	± 22,0 %
Trabajabilidad	17,0-23,0 cm Ø
Espesor por capa	1 mm
Coverage	≈ 22 Kg/m <sup>2</sup> per 2 layers of 1 mm each one
Tariff code	3824.50.90.00
Final performances	
Type	Corrosion protection mortar (EN 1504-7)
Adhesion	≥ 2,0 MPa
Compressive strength	≥ 45,0 MPa
Corrosion protection	Pass

More info:













## Special Mortars



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## BEYEM TOTALFIX

HIGH PERFORMANCE ELASTIC ADHESIVE FOR SPECIAL APPLICATIONS

More info:



■ **ABOUT THIS PRODUCT** BEYEM TOTALFIX is a high-performance multi-purpose elastic adhesive. Silane-polymer modified, selected loads and state-of-the-art additives based formulation. Single-component and solvent free.

■ **PACKAGING** BEYEM TOTALFIX is packaged in 5 and 10 Kg plastic pails.

## BEYEM BLOCK

ADHESIVE MORTAR FOR FIXING AND GROUTING GLASS BLOCKS

More info:



■ **ABOUT THIS PRODUCT** BEYEM BLOCK is an adhesive mortar formulated with white high strength cement, selected fine aggregates, resins and special additives to improve adhesion and plasticity. Waterproof. Excellent workability. Easy to clean. Especially suitable for fixing and grouting glass blocks in interior and exterior situations.

■ **PACKAGING** BEYEM BLOCK is packed 20 kg plastic lined paper bags.

## BEYEM REFRAC

REFRACTORY MORTAR FOR APPLICATIONS EXPOSED TO HIGH TEMPERATURES

More info:



■ **ABOUT THIS PRODUCT** BEYEM REFRAC is a refractory mortar formulated with aluminous cement, refractory aggregates and special additives to improve plasticity and workability of mortar. Especially suitable for laying refractory brickworks and plastering at high temperature conditions. BEYEM REFRAC AC is a version also available for non-industrial applications (up to 800 °C).

■ **PACKAGING** BEYEM REFRAC is packed 25 kg plastic lined paper bags

## BEYEM ROCK

BASECOAT RENDER AND ADHESIVE  
FOR FIXING MW THERMAL INSULATING PANELS



EN 998-1  
OC CSIV W<sub>c</sub> 1

More info:



■ **ABOUT THIS PRODUCT** BEYEM ROCK is a basecoat render and adhesive for fixing insulating panels (mineral wool and glass fibre) in cavity walls. Formulated with high strength grey cement, selected aggregates, special additives to improve plasticity, adhesion, rainwater-proofing and an excellent workability.

■ **PACKAGING** BEYEM ROCK is packed 25 kg plastic lined paper bags.



## BEYEM 1,2,3

More info:



ULTRA-FAST SETTING MORTAR FOR ANCHORING, FIXING AND LITTLE REPAIRS

■ **ABOUT THIS PRODUCT** BEYEM 1,2,3 is a ultra-fast setting mortar formulated with hydraulic binders and selected aggregates. Especially suitable for non structural anchoring, fixing and little repairs. For plugging leaks and seal joints to resist inflow of water.

■ **PACKAGING** BEYEM 1,2,3 is packed in 25 kg plastic lined paper bags and 5 kg plastic bags.

## BEYEM TABIK



EN 12860

More info:



GYPSUM BASED ADHESIVE FOR FIXING LARGE FORMAT CERAMIC BRICKS

■ **ABOUT THIS PRODUCT** BEYEM TABIK is a white powder adhesive mortar formulated with high-purity gypsum, selected fine grain aggregates and special additives which confers great workability, adherence and high resistance. Particularly suitable for the jointing and sealing of ceramic wallboards.

■ **PACKAGING** BEYEM TABIK is packed in 20 kg plastic lined paper bags.

## BEYEM PEGA



EN 12860

More info:



GYPSUM BASED BOND FILLER FOR FIXING MOLDINGS AND OTHER ELEMENTS

■ **ABOUT THIS PRODUCT** BEYEM PEGA is an adhesive mortar formulated with high-purity gypsum and special additives which improves its workability and adherence, whilst delaying setting. Particularly suitable for the installation of gypsum based decorative elements.

■ **PACKAGING** BEYEM PEGA is packed in 25 kg plastic lined paper bags and 5 kg plastic bags.

## BEYEM TAPAGOTELÉ

Más info:



GYPSUM BASED BOND FILLER TO RENOVATE ROUGH AND TEXTURED WALLS

■ **ABOUT THIS PRODUCT** Is a white putty powder formulated with high-purity gypsum, special fine aggregates, resins and additives which confers workability, adhesion and resistance whilst delaying setting. Particularly suitable for levelling textured or stippling paints.

■ **PACKAGING** BEYEM TAPAGOTELÉ is packed in 20 kg plastic lined paper bags.

## BEYEM PLAX

More info:

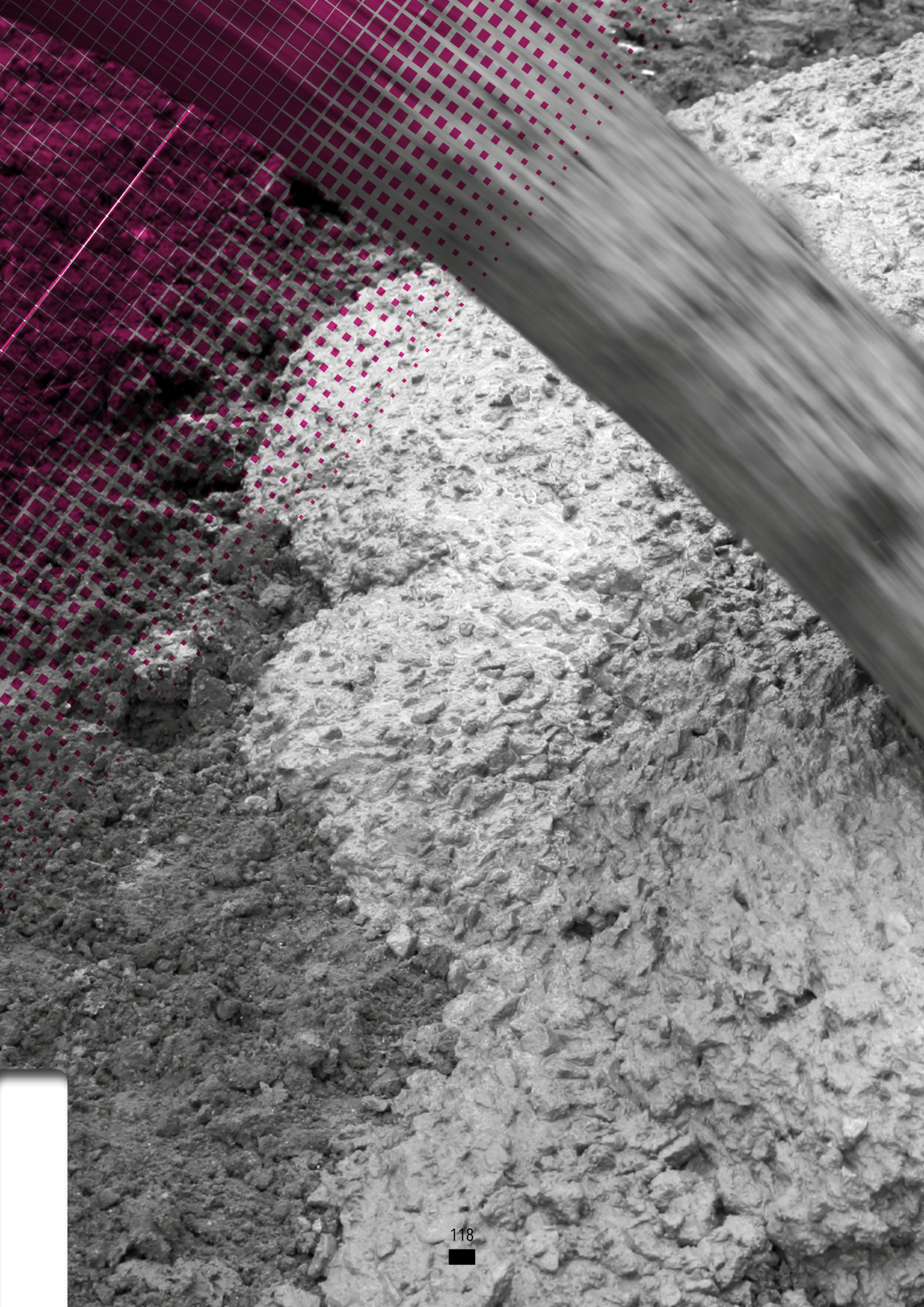


GYPSUM BASED PLASTER FOR FILLINGS, RENOVATIONS AND SMOOTHING IN INTERIOR WALLS

■ **ABOUT THIS PRODUCT** BEYEM PLAX is a high purity gypsum based putty powder which delays hardening and improves workability, enabling the application from minimum to greater thicknesses. Particularly suitable for fillings, renovations, covering of cracks and interior plastering.

■ **PACKAGING** BEYEM PLAX is packet in 1 kg plastic pails.









# Additives, Primers and Others



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## BEYEM ADIFLEX

ADDITIVE FOR ENHANCING CEMENT BASED TILE GROUTS

More info:



■ **ABOUT THIS PRODUCT** BEYEM ADIFLEX is a multifunctional state-of-the-art polymer and special organic additives based additive. BEYEM ADIFLEX is specially designed to improve the ultimate performance of tile grout mortars.

■ **PACKAGING** BEYEM ADIFLEX is packed in carton boxes containing 4 plastic bags units of 0,5 kg each one.

## BEYEM FIJADOR

WATER-BORNE, RESIN DISPERSION BASED PRIMER FOR GYPSUM SURFACES

More info:



■ **ABOUT THIS PRODUCT** BEYEM FIJADOR is a resin dispersion based primer for adhesion improving. Penetrating, sealing and protective primer for plaster surfaces. Water-borne, single-component and solvent free product.

■ **PACKAGING** BEYEM FIJADOR is packed in 5L plastic bottles.

## BEYEM PRO

WATER-BORNE, ACRYLIC-BASED ADHESION PROMOTER AND CONSOLIDATOR

More info:



■ **ABOUT THIS PRODUCT** BEYEM PRO is a water-borne primer which acts as an adhesion enhancer and superficial hardener. Extremely fine particle acrylic emulsion based product. Single-component and solvent free.

■ **PACKAGING** BEYEM PRO is packed in 5L plastic bottles.

## BEYEM ELASTIC

SYNTHETIC FLEXIBILIZING EMULSION FOR CEMENTITIOUS, LIME AND GYPSUM MIXTURES

More info:



■ **ABOUT THIS PRODUCT** BEYEM ELASTIC is a flexibilizer, synthetic emulsion for cementitious, lime and gypsum mixtures, which improves the adhesion, mechanical performance, flexibility and impermeability of the mixtures to which it is added. Water formulated copolymer acrylic emulsion based product. Single-component and solvent free.

■ **PACKAGING** is packed in 1, 5 and 25L plastic bottles.

## BEYEM PRO H



More info:



HYDRO-REPELLENT AQUEOUS EMULSION BASED ON REACTIVE SILOXANES

■ **ABOUT THIS PRODUCT** BEYEM PRO H is a water-repellent aqueous reactive siloxane based emulsion. Single-component and solvent free. BEYEM PRO H penetrates the substrate bestowing a long-lasting impermeability, whilst allowing vapour diffusion.

■ **PACKAGING** BEYEM PRO H is packed in 5L plastic bottles.

## BEYEM PRO H PLUS



More info:



WATER-REPELLENT IMPREGNATION BASED ON REACTIVE SILOXANES  
IN SOLVENT BASE

■ **ABOUT THIS PRODUCT** BEYEM PRO H PLUS is a solvent-based, water-repellent impregnation with high penetration power, formulated with reactive siloxanes. BEYEM PRO H PLUS penetrates the support giving it a long-lasting impermeability, whilst allowing vapour diffusion. Specially designed to use on highly alkaline substrates.

■ **PACKAGING** BEYEM PRO H PLUS is packed in 4 and 20 L metal containers.

## BEYEM SIT

More info:



WATERPROOFING POWDER MIXTURE

■ **ABOUT THIS PRODUCT** BEYEM SIT is a water repellent and waterproofing chloride free and easy to apply powder preparation for mortars and concretes. Protects the construction against water penetration.

■ **PACKAGING** BEYEM SIT is packed in 15 kg plastic bags containing 1 kg plastic bags units.

## BEYEM DESIN EPOXI

More info:



DETERGENT FOR RESIDUES AND STAINS OF EPOXY SYSTEMS.  
CONCENTRATED FORMULA GEL

■ **ABOUT THIS PRODUCT** BEYEM DESIN EPOXI is a detergent for residues and stains of epoxy systems. Energetic combination of fast detergents, emollient agents, emulsifiers, penetrants and dirt-suspending additives. BEYEM DESIN EPOXI develops a specific detergent action on hardened epoxy systems.

■ **PACKAGING** BEYEM DESIN EPOXI is packed in 1L plastic bottles.

## BEYEM UNIÓN - M

More info:



SINGLE-COMPONENT ADHERENCE PRIMER FOR MORTARS

■ **ABOUT THIS PRODUCT** BEYEM UNIÓN-M is a single-component, water-based primer formulated with synthetic resins, siliceous mineral fillers and organic and inorganic additives. Specially formulated as a bonding coat between new and old mortar and on smooth substrates without absorption.

■ **PACKAGING** BEYEM UNIÓN-M is packed in 15 kg plastic bottles.

## BEYEM UNIÓN - E

More info:



EPOXY ADHESIVE FOR BONDING FRESH CONCRETE ON HARDENED CONCRETE

■ **ABOUT THIS PRODUCT** BEYEM UNIÓN-E Solvent free, epoxy resin based, two-component adhesive which, applied to old concrete, provides a perfect seal with fresh concrete.

■ **PACKAGING** BEYEM UNIÓN-E is packed in 1kg metal containers.

## OTHERS: CEMENT, QUICKLIME (powder and lump form) and HYDRATED LIME









## Paints



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## BEYEM PINTEX - I

More info:



HIGH COVERAGE, MATT FINISH, EXCELLENT WHITENESS ACRYLIC PAINT FOR PROFESSIONAL USE

■ **ABOUT THIS PRODUCT** BEYEM PINTEX-I is a matt finish, professional use, excellent whiteness and high coverage power acrylic paint, specially formulated for high quality interior coating.

■ **PACKAGING** BEYEM PINTEX-I is packed in 5 and 25 Kg plastic bottles.

## BEYEM PINTEX - E

More info:



HIGH COVERAGE, MATT FINISH, UNIQUE WHITENESS ACRYLIC PAINT FOR PROFESSIONAL USE IN EXTERIORS

■ **ABOUT THIS PRODUCT** BEYEM PINTEX-E is a matt finish, professional use, unique whiteness and high coverage power acrylic paint, specially formulated for high quality exterior coating.

■ **PACKAGING** BEYEM PINTEX-E is packed in 5 and 25 Kg plastic bottles.

## BEYEM PINTEX - A

More info:



ELASTIC, WATERPROOFING AND ACRYLIC COPOLYMER-BASED COATING

■ **ABOUT THIS PRODUCT** BEYEM PINTEX-A is a water-based elastic coating formulated with acrylic copolymers in aqueous dispersion, high mechanical strength aggregates, additives and special pigments for "in situ" waterproofing in construction. BEYEM PINTEX-A provides continuous coverage capable of preventing water leakages and the ensuing problems derivative from the action of water.

■ **PACKAGING** BEYEM PINTEX-A is packed in 1,5 and 20 kg plastic bottles.

## BEYEM PINTEX - A FIBRADO

More info:



ELASTIC, WATERPROOFING, FIBER-REINFORCED AND ACRYLIC COPOLYMER-BASED COATING

■ **ABOUT THIS PRODUCT** BEYEM PINTEX-A FIBRADO is a water-based, fiber-reinforced, elastic coating formulated with acrylic copolymers in aqueous dispersion, high mechanical strength aggregates, additives and special pigments for "in situ" waterproofing in construction. BEYEM PINTEX-A provides continuous coverage capable of preventing water leakages and the ensuing problems derivative from the action of water.

■ **PACKAGING** BEYEM PINTEX-A FIBRADO is packed in 1,5 and 20 kg plastic bottles.

# BEYEM IGUALADOR

More info:



HIGH COVERAGE, SILK FINISH, ACRYLIC PAINT FOR PROFESSIONAL USE  
ON FACADES

■ **ABOUT THIS PRODUCT** BEYEM IGUALADOR is a professional use, silk finish, acrylic paint for facade with high coverage power, specially formulated for high quality coating in exteriors and as color homogenization layer over colored mortars.

■ **PACKAGING** BEYEM IGUALADOR is packed in 5 and 25 kg plastic bottles.



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