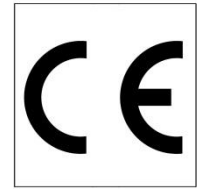
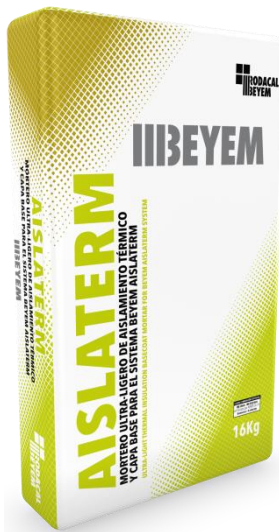


# Beyem Aislaterm

Ultra-light thermal insulation basecoat  
mortar for Beyem Aislaterm System



EN 998-1



## About this product

BEYEM AISLATERM is an ultra-light thermal insulation render, formulated with hydraulic binders, selected aggregates, expanded polystyrene and special additives. Especially suitable for energy saving rehabilitation and ventilated facades.

BEYEM AISLATERM is the basecoat of Beyem Aislaterm Thermal Insulation System.

## 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.

## 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 or BEYEM ADHETERM with acrylic finish BEYEM CRIL.

## Substrates

BEYEM AISLATERM is suitable for:

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

## Preparation of substrates

Substrates must be clean, compact and free of substances that reduce adhesion such as dust, oil, grease and with no loose material. Substrates must submit an adequate porosity and surface roughness. Dampen substrates with water to cool down if they should be too warm, in case of wind or over absorbent substrates and wait until the thin layer of water disappears. It is a good practice curing with a fine spray of clean water 24 h after application. Do not apply on cellular concrete, gypsum based plasters, paint, plastic, wood or materials with low mechanical properties.

## Instructions for use

Mix manually of mechanically BEYEM AISLATERM with 11,0-14,0 l per bag of clean water until a homogeneous, creamy and lump-free paste is obtained. Let the mix stand for 5 minutes before application.

To apply with render spray machine, it's necessary to set the relation water/mortar and pump pressure depending on section and length of hose and climatology conditions. It's important to maintain the variables affecting the properties of the applied mortar (distance to the wall, angle of application and water proportion). Fix corners profiles and reinforcement mesh in gaps taking into account final coat. Treat conveniently the singular points. Spread the mixed product manually or mechanically leaving 20-100 mm of thickness, with a 40 mm of maximum thickness per layer. For final thicknesses greater than 40 mm BEYEM AISLATERM must be applied in different layers incorporating to the first of them complementary mechanical fixings (glass fiber mesh embedded in the mortar and fastened by mechanical anchoring once the mortar has hardened). Leave at least 24 hours to set the material between layers. Press to ensure adhesion and expel the air contained in the pores. Smooth with a ruler the applied material to regulate thickness. Expansion joints must be respected by all applied materials. BEYEM AISLATERM must be finished with any product mentioned above in case of exterior works (except in case of ventilated facades). Before overcoating, allow to dry 1 day for each centimeter of applied material (the drying time may vary depending on the weather conditions). In the application on ventilated facades, the fasteners must be fixed on the brickwork, not in the insulation mortar.

## Cautions and recommendations

- Always mix with the specified amount of water.
- Do not apply below 5°C or above 30°C.
- Do not apply when there is risk of frost, rain, strong wind or direct sunlight.
- It is not advisable to apply on horizontal or sloped surfaces.
- Protect top edges of facade from rainwater penetration.
- Reinforce the critical points of facade before first layer of basecoat using reinforcement mesh of 160 gr/m<sup>2</sup> and fasteners.
- Demarcate pieces of work using PVC battens previously placed.
- Expansion joints should be included as required by the substrate and respected by all applied materials.
- It is necessary to use a primer on too high absorption substrates, as a cellular concrete, or on very low absorption substrates.

## 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	40 mm
Maximum application thickness	100 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

## Packaging

BEYEM AISLATERM is packed 16 kg plastic lined paper bags.

Storage: when stored unopened in a cool dry place, shelf life is 12 months from date of manufacture.

## Cleaning tools

Tools can be cleaned easily with water before the product hardens. Hardened product can be removed only mechanically.

## Project specification

*Thermal Insulation of facade must be carried out with ultra-light thermal insulation basecoat mortar compliant with EN 998-1-Class T CSI W<sub>c</sub> 1 such as Beyem Aislaterm, manufactured by Rodacal Beyem company. Coverage will be ≈ 3,0 kg/m<sup>2</sup> per cm of thickness. The substrate must be clean, sound, compact and dimensionally stable. Expansion joints must be respected.*

## Health and Safety

For further and complete information about the safe use of our product please refer to our latest version of the Safety Data Sheet, which is available upon request.

Disposal of the product and packaging must be in accordance with current legislation. This is responsibility of the final product user.

## Certifications



ER-1089/1999



IDI-0004/2012



### Contact



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### Note

#### Product for professional use

The above guidelines and information is accurate to the best of our knowledge and is offered in good faith. This information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. End user should ensure that he has our latest literature, copy of which will be sent upon request.