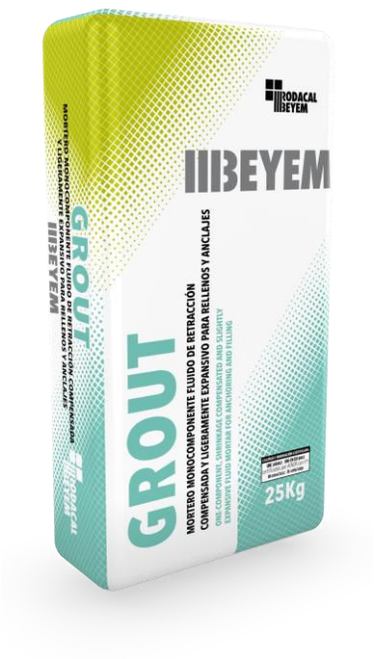
Beyem Grout

One-component, shrinkage compensated and slightly expansive fluid mortar for anchoring and filling

CE

EN 1504-6





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.

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.

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.

Substrates

BEYEM GROUT is suitable for:

- Concrete (floors, screeds, formworks)

Preparation of substrates

Concrete must be free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by anchoring and filling materials. Steel reinforcements must be free of rust, grease, oil and other adhesion impairing contaminants (Sa21/2 degree). Where necessary, concrete must be cleaned by sandblasting, high pressure water jetting or other approved mechanical methods that do not cause vibration or impact, to leave a clean and keyed surface. Rusty exposed reinforcement must be cleaned by metal brushing or sandblasting. Absorbent substrates should be previously wetted until they are saturated, preventing waterlogging, and applying the mortar once the surface has a matt appearance.
Smooth, slightly absorbent or very damaged substrates should be treated to obtain a surface with minimum guarantees of roughness and tensile strength. For more information regarding substrate preparation, refer to the recommendations provided in EN 1504-10.

Instructions for use

Mix manually of mechanically BEYEM GROUT with 3,0-3,75 l per bag of clean water until a homogeneous, fluid and lump-free consistency is obtained. Mixing water must be between 12-15% by dry mortar weight, depending of consistency (pourable, flowable) and mechanical strengths needed. Do not add more water to the mortar than the recommended amount and do not remix.
Pour the mixed grout into the header box/hopper ensuring continuous grout flow during the complete grouting operation to avoid trapping air. Use steel banding or chains to assist flow where necessary.
For filling under plates, an air outlet should be provided, so that air can come out easily during the filling
with the product. On large surfaces, vibrating with a rod or ramming into place with hardwood tamping tools and mallet is recommended. BEYEM GROUT can be applied in thicknesses not less than 10 mm and not more than 30 mm per layer when applied on the surface, and for anchoring by pouring, thicknesses of up to 500 mm may be used.
Finishing can be done with trowel or float as soon as the mortar has started to stiffen.

Cautions and recommendations

- 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.
- Do not add water in excess of the recommended dosage .
- Protect the mortar applied of early dehydration, using suitable curing methods. The curing operation in humid environment is essential for at least 24 hours after application.
- This product is not recommended for surface levelling.

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^3
Mixing water,%	± 12 %
Minimum layer thickness	10 mm
Maximum layer thickness	30 mm
Maximum thickness per pour	500 mm
Coverage	20 Kg/m^2 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 cracking 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

Packaging

BEYEM GROUT is packed 25 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

Regeneration, regularization, fixing and anchoring of steel reinforcements, filling of machinery bedplates and filling cracks by pouring in concrete must be carried out with one-component, shrinkage compensated and slightly expansive fluid mortar for anchoring and filling compliant with EN 1504-6, such as Beyem Grout manufactured by Rodacal Beyem Company. Coverage will be ≈ 20 kg / m² per cm of thickness.

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

AENOR ER Empresa Registrada UNE-EN ISO 9001 ER-1089/1999

AENOR ER Gestión I+D+i UNE 166002 IDI-0004/2012

CERTIFIED IQNet MANAGEMENT SYSTEM

Contact www.rodacal.com rodacal@rodacal.com 967 44 00 18

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 labor 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.