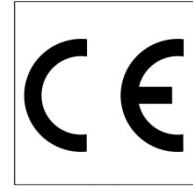


Beyem R1 T Renodur

One-component, highly deformable, low shrinkage, thixotropic mortar for repair and renovation of walls



EN 1504-3
EN 998-1



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.

Benefits

- Class R1 and GP CSIV W2.
- 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.

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.

Substrates

BEYEM R1 T RENODUR is suitable for:

- Concrete and precast concrete elements.
- Mortars and other cement based substrates.
- Paints and other synthetic coatings compact and well anchored to the substrate.
- Fiber-cement panels.
- Ceramic tiles and vitreous mosaic tiles well fixed to the substrate.

Preparation of substrates

Substrates must be free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. 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. 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.

On mortar substrate, in case of heat or wind and/or high absorption, the substrate must be wetted as indicated above, as well as conveniently cure the applied product 24 hours after the application. Non-absorbent supports must be perfectly dry.

It can be applied without the need of bonding bridge/primer over concrete, mortar, ceramic, stone, well adhered paint, well adhered acrylic mortars, vitreous mosaic, etc ...

Instructions for use

Mix manually or mechanically BEYEM R1 T RENODUR with 5,0-5,5 l per bag of clean water until a homogeneous, and lump-free paste is obtained. 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). Spread the mixed product with a trowel (in case of manually or mechanically application) leaving 2-6 mm of average thickness. Press to ensure adhesion and expel the air contained in the pores. Smooth with a ruler the applied material to regulate thickness. Finishing for both hand and machine application can be done with the same trowel or float as soon as the mortar has started to stiffen. When the material is used on highly absorbent surfaces, apply a minimum thickness per 5 mm layer. Respect the correct application techniques.

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 .
- Do not use for structural reinforcement.
- 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.
- Mix only sufficient material that can be applied using available labour and equipment.
- Do not add cement, sand or other substances that may affect the properties of the material.
- Do not apply on silicone paints/coatings. Respect expansion and structural joints. Do not apply on gypsum, metal or wood.

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 ³
Pot life	≥ 1 h
Mixing water,%	± 21,0 %
Minimum layer thickness	2 mm
Maximum layer thickness	6 mm
Maximum thickness application	10 mm
Coverage	1,4 Kg/m ² per mm of thickness
Tariff code	3824.50.90.00
Final performances	
Type	R1, GP CS IV W2
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 ² h ^{1/2}
Thermal compatibility. Part 1	No fissures
Water vapour permeability	µ ≤ 15

Technical data

Final performances

Capillary water absorption	< 0,2 kg/m ² min ^{1/2}
Thermal conductivity	$\lambda_{dry} = 0,47 \text{ W/ m}^{\circ}\text{k}$ (Tabulated value P=50%)
Reaction to fire	Euroclass A1

Packaging

BEYEM R1 T RENODUR 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

Rehabilitation of facades and stable and anchored coatings, levelling and smoothing of painted surfaces, vitreous mosaics and ceramic tiles well fixed to the substrate and treatment of cracks in facade must be carried out with one-component, highly deformable, thixotropic, low shrinkage, fiber-reinforced mortar for repair and renovation of walls compliant with EN 1504-3 – Class R1 and EN 998-1 –Class GP CSIV W2 and according to Principle 3, method 3.1 and 3.3, and Principle 7 methods 7.1 and 7.2 of the EN 1504-9, such as Beyem R1 T Renodur, manufactured by Rodacal Beyem Company. Apply in a minimum thickness of 2 mm per layer or 5 mm per layer in the case of highly absorbent substrates. Coverage will be $\approx 1,4 \text{ kg / m}^2$ per mm 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



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 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.