

BETOFIX R3

Polymer modified thixotropic repairing mortar for concrete.

Description

Fast curing, fibre-reinforced, polymer modified and non-shrinking cement-based mortar for demanding structural concrete repairs, structural concrete strengthening, restoration of damaged concrete etc. Specifically, for medium or large size operations, rapid execution and results that are ready-for-use within the day. Meets the requirements of European standard EN 1504-3 class R3.

Features - Benefits

- Delivering excellent mechanical properties
- Develop strong adhesion forces with the substrate combined with high elasticity
- Improved resistance to successive freeze-thaw cycles
- Ability to create thick layers (max 40mm per coat)
- Fine finishing
- High resistance to abrasion and common chemical

Examples of applications

- Repair and construction of high demands in concrete elements
- Precast joint elements
- Structural restoration of damaged concrete in bridges, buildings, tunnels, retaining walls, concrete etc.
- Repair of degraded concrete surfaces
- Fills nests, deductibles and creating joint-grooves in concrete elements

Specifications

Form: gray cement based mortar

Density of dry mortar: 1.5 kg/L

Density of fresh mortar: 2,05 kg/L

Pot life: 3 hours at 20 °C

Consumption: 15 kg/m²/cm

Requirements as per EN 1504-3 Class R3

Maximum thickness: 40mm

Compressive strength:

7 days: ≥ 15 N/mm²

28 days: ≥ 25 N/mm²

Containing chloride ions: $\leq 0.05\%$

Adhesion: $\geq 1,5$ N/mm²

Elasticity: ≥ 15 GPa

Thermal compatibility freeze – thaw: $\geq 1,5$ N/mm²
(adhesion after 50 cycles)

Dangerous substances (Cr6⁺): $< 0,0002\%$

Substrate preparation

Provide stable surfaces that show no shrinkage trends. Remove loose, detached parts, dirt, oil, dust, etc. Before applying BETOFIX R3 moisten the surface with water.

High-absorption substrates

Surfaces that have been exposed to intense heat during the hot days of summer or highly absorbent substrates need slight wetting of substrates without stagnating the water to reduce the water absorption and to avoid the rapid dehydration of the mortar. Generally no priming is required. In special cases where a primer should be used, use only BAUER products and apply fresh on fresh.

Mixture preparation

Prepare BETOFIX R3 in a container by pouring first the required quantity of water (5,5Lt water for 25Kg mortar) and adding the contents of the bag gradually stirring using a low speed electric mixer, until we have a homogeneous mortar.

Instructions

BETOFIX R3 is applied manually by pressing on the surface or mechanically with a blasting machine taking appropriate care to penetrate and cover all the gaps. The material can be applied on successive layers but only after the previous coat has set enough and before it has dried completely. It is recommended to use appropriate tools for flattening to achieve smooth finish. Avoid application under intense solar radiation (> 35 °C), during rainfall or anticipated temperatures below 5 °C. During the summer days, keep surfaces wet by lightly spraying with water for two days after application.

Packaging

Paper bags 25kg.

Storage

Preferably in shady and roofed locations, low in moisture, protected against ice, high temperature and exposure to sunlight for 12 months from the date of production and in the original packaging.

Precautions and safety

The product contains cement and is classified as an irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations i.e. using gloves and goggles; preventing prolonged skin contact, etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose of in refuse bins designated for this purpose. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

BAUER BUILDING TECHNOLOGIES
Megara Industrial Estate, Attica
Tel: +30 210 5744222
Fax: +30210 5740777
Email: info@netbauer.com
[http:// www.netbauer.com](http://www.netbauer.com)

Frankfurt, Reg. No 312310 QM and No 312310 UM
Qualitätsmanagementsystem
Zertifiziert nach DIN EN ISO 9001

