

ULTRAFAST

Super fast-setting polymer modified cement based mortar.

Description

ULTRAFAST is a super fast-setting, polymer-modified cement mortar for fast fixings and concrete repairs. The mortar is workable for 5-7 minutes depending on the environment and the temperature of mixing water with thickness up to 30mm/layer. ULTRAFAST offers high adhesion to substrates and is ideal for fixing reinforcement mesh in renders, repairs taking place at mounting aluminum profiles, electrical panels, junction boxes, plumbing works and generally where fast fixing is required. Suitable for anchorages and placements of metal railings and columns, sealing of holes, fixing of corner profiles, corner beads and many other applications.

Features - Benefits

- Develops strong adhesion forces with the substrate
- Increased resistance to successive cycles of cooling – heating
- Increased corrosion protection and minimizing water absorption of concrete
- High resistance to abrasion and common chemicals

Examples of applications

- High requirement repairs in concrete elements
- Structural strengthening and damaged concrete restoration work
- Repair of degraded concrete surfaces
- Fills nests, deductibles and creating joint - grooves in concrete elements

Specifications

Form: powder gray

Density of dry mortar: 1.50kg/lit

Pot life : 45 minutes at 20°C

Water demand : $\approx$ 4,0 - 4,5 lit water / 25kg cement

Consumption : 15 kgr/m²/cm for each layer depending on the substrate

Compressive strength:

24 hours : $\geq$ 7 N/mm²

7 days : $\geq$ 18 N/mm²

28 days : $\geq$ 30 N/mm²

Flexural strength : 28 days : $\geq$ 7N/mm²

Adhesion $\geq$ 1,5 N/mm²

Modulus of elasticity $\geq$ 15 GPa

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

Substrate preparation

Ensure stable and clean surfaces. Remove loose, detached parts, dirt, grease etc. Before applying the material prepare the substrate by wetting to saturation.

Mixture preparation

ULTRAFAST is gradually added into a pot of clean water under continuous stirring using a mixer at slow speed (400 rev / min approx.) until the required consistency of the mortar is achieved

Instructions

ULTRAFAST 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 ($> 35^{\circ}\text{C}$), 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

Plastic bag 2kg and heavy duty paper bags 25 Kg

Storage

Preferably in shady and roofed locations, low in moisture, protected against ice, high temperature and exposure to sunlight for at least 6 months.

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

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