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Betoxan 400

FIBRE-REINFORCED THIXOTROPIC ANTICONTRACTION MORTAR



CODE 9490140

BETOXAN 400 - V.2024-09-24

DESCRIPTION

BETOXAN 400 is a product formulated for repairing and restoring structural concrete elements employed in building which, thanks to special additives and the presence of polypropylene fibres, features:

- Excellent outdoor resistance and freeze-thaw stability
- High level of waterproofing
- Excellent adhesion to the surface (concrete, tiles).
- High mechanical compressive and flexural strength
- Ease and rapidity of application and finish
- Absence of fissures and shrinkage.

INSTRUCTIONS FOR USE

The product can be applied on concrete, for repairing reinforced concrete beams, pillars, rigid joints in prefabrication, structural coverings, even those subjected to vibrations resulting from vehicular traffic.

BETOXAN 400 is a primer and must be paint over with a top coat finishing system.

TECHNICAL SPECIFICATIONS

Composition: Portland cement, specially selected aggregates, polymeric components - for increasing adhesion to the surfaces and for improving the product's pot life - setting regulators.

- Appearance: grey powder.
- Max. size of the inert material: 2.5 mm
- Hardening time: approx 1 hour at 20 °C
- Flexural strength: 5.5 N/mm² after 28 days
- Compressive strength: 40.9 N/mm² after 28 days
- Drying (at 25 C and 65 R.H.): variable depending on the thickness applied. Do not recoat before 7 days
- CE marking per EN 1504-3

PREPARING THE SURFACE

Cement and/or concrete:

- Check the state of repair. The surface must be consistent and must not tend to crumble. If this is not the case, make sure any parts which are not perfectly adherent are removed.
- The reinforced-concrete rods protruding from the surface must be treated with BETOXAN PRIMER Passivating grout 9490125 once they have been cleaned and any rust removed.
- Remove any efflorescence by buffing or sanding.
- Apply BETOXAN 200 if the thickness to be restored is not more than 2 mm. For thicknesses over 2 mm, apply BETOXAN 400. For a smoother finish, level and fill using BETOXAN 200.
- After at least 7 days, apply the fixative ISOMARC 4410111 suitable thinned with the specific thinner 5210011.
- Proceed with the application of the finish.

APPLICATION INSTRUCTIONS

Air and surface conditions:

Air temperature: Min. +5 °C / Max. +35 °C

Relative humidity of the air: <60%

Temperature of the surface: Min. +5 °C / Max. +35 °C.

Dry surface.

Do not apply on frozen surfaces.

Do not use for:

- . repairs less than 5 mm thick;
- . adhesion purposes;
- . shuttered elements;
- . in contact with strong acids (pH < 5. 25 °C).

BETOXAN 200 is applied with a mason's trowel or plastic or wood plastering trowel for the finishing phase, which can be started just as soon as you can touch the surface without your fingers sinking into the actual mortar.

-Mix the product with 15-16% of water (in particularly hot climates, slight increase in the water content compared to the recommended values can be tolerated, whilst slightly less water can be added in cold and damp climates).

Do not add additional water in order to lengthen setting times.

-Preparation: pour the mixing water into a container and add the product in a regular flow, stirring continually in order to prevent lumps forming. Stir the mixture for a few minutes.

-Thickness applied: 5 - 50 mm max. at a time

-Indicative spreading rate: 18 Kg/sq m for every cm of thickness applied.

-Setting time (at 20 °C and with R.H. <65%):

Start of setting after 45'.

End of setting after approx. 12 hours.

Once coated with BETOXAN 200, the surface can be painted approx. 7 days after application (in the environmental conditions mentioned).

-Tools should be cleaned immediately after

TINTING

The product is available in grey.

STORAGE

Maximum storage temperature: +30 °C

Minimum storage temperature: +5 °C

Keep in a dry place away from damp and moisture.

Stability in the unopened original pots and at suitable temperatures: 1 year.

SAFETY RULES

It does not fall within the scope of Legislative Decree 161/2006 (Dir. 2004/42/EC)

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May irritate the respiratory tract.

Use the product in accordance with current safety and hygiene regulations; after use, do not disperse the pots in the environment; allow the residues to dry well and treat them as special waste. Do not empty into drains, watercourses or onto the ground.

For more information, please consult the safety data sheet.

SPECIFICATION ITEM

Applications, on previously prepared surfaces, of BETOXAN 400 Fibre-reinforced thixotropic anticontraction mortar code 9490140 - with a base of Portland cement, specially selected aggregates and polymeric components - for a consumption of at least 18 kg/sq m for every centimetre of thickness applied.