

# BETOXAN 300

RAPID SETTING THIXOTROPIC REPAIR CEMENT

code 9490130

## DESCRIPTION

BETOXAN 300 is pre-mixed cement for the repair and renovation of cement surfaces with:

- Optimal resistance to atmospheric agents and freezing-thawing systems;
- Elevated water proofing;
- Optimal adherence to the support (cement, brickwork);
- Easy rapid application and finishing;
- Fast drying;
- No cracking or shrinkage.

## INSTRUCTIONS FOR USE

Applicable cement and concrete supports, external and internal.

Particularly indicated for:

- repairing elements in reinforced concrete (beams, pillars, facings, etc...);
- repairing pre-fabricated elements and rigid joints;
- execution of fixing.

BETOXAN 300 is a primer and must be paint over with a top coat finishing system.

For work on civil plastering, the use of BETOMARC cod. 9450150 leveller is suggested as a better alternative.

## TECHNICAL SPECIFICATIONS

Composition: Portland cement, selected inert matter, polymer components to augment adhesion to supports and to improve product usage, hold regulators.

- Volume mass in fresh cement UNI 8910:  $1.85 \pm 0.05$  kg/l
- Aspect: powder
- Granulometry: <1.2 mm
- Resistance to compression (at 28 days): > 25 N/mm<sup>2</sup>
- Resistance to flexing (at 28 days): > 7 N/mm<sup>2</sup>
- Application time: 15 min. at 20°C
- Hardening time: about 20 min. at 20°C; variable depending on the depth of application and the temperature, in any case the product may not be painted over for 1 week.
- CE marking per EN 1504-7

## PREPARING THE SURFACE

Surfaces in cement and/or reinforced concrete:

- Check the state of maintenance. The surface must be solid and not subject to crumbling. If necessary remove the crumbled sections.
- Eliminate any eventual non-adherent agents (oil and grease).
- Metallic terminations of reinforcements touching the surface, after cleaning and removal of rust present, must be treated with BETOXAN PRIMER 9490125 rust-proofing.
- Remove, brushing or sanding, encrustation.
- Apply BETOXAN 300 is the depth to be renovated exceed 3 mm. For depths inferior to 2 mm apply BETOXAN 200.
- After no less than 7 days, apply ISOMARC 4410111 fixative suitably diluted with Synthetic 5210011 thinner.
- Proceed with application of finishing product.

## APPLICATION INSTRUCTIONS

Environmental and support conditions:

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

Relative ambient humidity: <60%

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

Support dry.

Do not apply to frozen surfaces.

Do not use for:

- . facings less than 3 mm in depth;
- . moulded elements;
- . in contact with acid substances (pH < 5).

Mix the cement in a mixer or, for small quantities, with a drill fitted with a suitable paddle, avoiding manual mixing which does not guarantee optimal paste.

BETOXAN 300 is applied by float/plasterer's trowel or spray. finishing may be executed by smoothing the surface with a float (wood or plastic) during the cement setting phase. Setting has started when fingers rested on the surface don't sink in.

- Mix the product with 20% water.

Do not add extra water to extend the setting time.

- Preparation: Pour about 80-90% of the water and add the BETOXAN 300 powder, without interruption to impede the formation of lumps. Mix for 1-2 minutes; add the remaining water (if necessary) to achieve the desired consistency and mix for a further 2 minutes.

- Applicable depth: from 5 to and max. of 50 mm at a time.

- Indicative yield: 1,6 kg/m<sup>2</sup> per mm in depth.

Where highly ventilated or exposed to sunlight, wet seasoning may be required, spraying occasionally with water.

- Tools should be washed with water immediately after use.

## TINTING

The product is available in the colour grey.

## STORAGE

Maximum storage temperature: +30° C

Minimum storage temperature: +5°C

Store in a cool dry place.

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

## SAFETY RULES

Dir. 2004/42/EC not applicable

Irritating to respiratory system and skin / risk of serious damage to eyes / may cause sensitization by skin contact / keep out of reach of children / do not breathe dust / avoid contact with skin and eyes / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice / wear suitable protective clothing and gloves / if swallowed, seek medical advice immediately and show this container or label / do not empty into drains.

Transport, use and store this product in accordance with current health and safety legislation; dispose of container properly after use; allow residues to dry completely and treat as special waste.

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Refer to the safety data sheet for further information.

## SPECIFICATION ITEM

Applications, on prepared surfaces, of thixotropic fast setting repair BETOXAN 300 code 9490130, based on Portland cement, selected inert matter and polymer components, with consumption of at least 16 kg/m<sup>2</sup> for each centimetre of depth.

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