

DUROCRET-PLUS

Polymer-modified, fiber-reinforced, repairing cement mortar

Description

DUROCRET-PLUS is a pre-mixed, polymer-modified, fiber-reinforced cement mortar, without corrosive substances, thus suitable for exterior and interior use.

It offers:

- Abrasion resistance.
- Very good bonding to the substrate.
- Water impermeability.
- Simplification of works.

It is classified as a PCC R3 mortar type for concrete repairs, according to EN 1504-3. Certificate Nr: 2032-CPR-10.11.

Application Fields

DUROCRET-PLUS is used for concrete or brickwork repairs, as well as patching, forming fillets etc.

DUROCRET-PLUS is applied in layers of up to 3 cm in case of large surfaces, and in layers of up to 5 cm for localized repairs.

Technical Data

Form:	cementitious mortar
Colors:	Grey
Pot Life:	4 h at +20°C
Water demand:	4.60 l/25 kg bag
Bulk density of dry mortar:	1.45 ± 0.10 kg/l
Bulk density of fresh mortar:	1.90 ± 0.10 kg/l
Compressive strength:	≥ 25.0 N/mm ²
Flexural strength:	≥ 7.0 N/mm ²
Elastic modulus:	≥ 15 GPa
Resistance to carbonation:	Pass
Chloride ion content:	0.00 %
Adhesion:	≥ 1.7 N/mm ²

Thermal compatibility Part 1

(50 freeze-thaw cycles): ≥ 1.5 N/mm²

Capillary absorption

of water: 0.34 kg·m⁻²·h^{-0.5}

Reaction to fire: Euroclass A1

Directions for use

1. Substrate Preparation

The substrate should be clean, free of dust, oily or loose materials etc. Before applying DUROCRET-PLUS, the substrate should be dampened.

2. Application

DUROCRET-PLUS is added into the water under continuous stirring, until the mixture formed has the desired workability. The product is applied with a trowel, as usual.

Consumption

Approx. 16 kg/m²/cm of layer thickness.

For forming fillets (5-6 cm side):

1.9-2.7 kg/m.

Packaging

Bags of 5 kg, 25 kg.

Shelf-life/Storage

- Paper bags of 25 kg:
12 months from production date.
- Plastic bags of 5 kg:
18 months from production date.

The numbers mentioned above are valid, provided that the product remains stored in its original, unopened packaging, in places protected from moisture and frost.

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Remarks

- Temperature during the application should be at least +5°C.
- During the summer, DUROCRET-PLUS should be dampened after being applied, to avoid water loss, due to high temperatures.
- The product contains cement, which reacts with water forming alkaline solutions and is thus classified as irritant.
- Consult the directions for safe use and precautions written on the package.



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EN 1504-3

DoP No.: DUROCRET-PLUS/1255-01

Concrete repair product for structural repair
PCC mortar (based on hydraulic cement,
polymer modified).

Compressive strength: class R3

Chloride ion content: $\leq 0.05\%$

Adhesion: ≥ 1.5 MPa

Carbonation resistance: Pass

Elastic modulus: ≥ 15 GPa

Thermal compatibility part 1: ≥ 1.5 MPa

Capillary absorption: $\leq 0.5 \text{ kg}\cdot\text{m}^{-2}\cdot\text{h}^{-0.5}$

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.

