

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.

DUROCRET-PLUS



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.



2032

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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

ISOMAT S.A.

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