# 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

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

Thermal compatibility Part 1
(50 freeze-thaw cycles):  $\geq 1.5$ N/mm$^2$
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/m$^2$/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 +5ºC.
- 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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**2032**

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**2032-CPR-10.11**

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: ≤ 0.05%

Adhesion: ≥ 1.5 MPa

Carbonation resistance: Pass

Elastic modulus: ≥ 15 GPa

Thermal compatibility part 1: ≥ 1.5 MPa

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

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

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