

# DUROCRET

## Polymer-modified, repairing cement mortar

### Description

DUROCRET is a pre-mixed, polymer-modified, cement-based mortar, without corrosive ingredients, suitable for indoor and outdoor applications, offering:

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

It is classified as a PCC R2 mortar for concrete repairs, according to EN 1504-3.

### Fields of application

DUROCRET is used for concrete or brickwork repair and patching, forming fillets at wall to floor junctions etc. The redbrown version is ideal for fixing ridge tiles on roofs. DUROCRET is applied in layers up to 2 cm thick for large-scale applications, and up to 5 cm thick for local repairs.

### Technical data

Form: cementitious powder  
Colors: grey, white, redbrown

Pot Life: 4 h at +20°C

#### DUROCRET Grey

Water demand: 4.60 l/25 kg bag

Bulk density of dry mortar: 1.55 ± 0.10 kg/l

Bulk density of fresh mortar: 1.85 ± 0.10 kg/l

Compressive strength: > 17.00 N/mm<sup>2</sup>

Flexural strength: > 6.00 N/mm<sup>2</sup>

Elastic modulus: 15.60 GPa

Carbonation resistance: Pass

Chloride ion content: 0.00%

Adhesion: 1.7 N/mm<sup>2</sup>

Thermal compatibility Part 1 (50 freeze-thaw cycles): 1.6 N/mm<sup>2</sup>

Capillary absorption: 0.45 kg·m<sup>-2</sup>·h<sup>-0.5</sup>

Reaction to fire: Euroclass A1

#### DUROCRET White

Water demand: 4.60 l/25 kg bag

Bulk density of dry mortar: 1.55 ± 0.10 kg/l

Bulk density of fresh mortar: 1.85 ± 0.10 kg/l

Compressive strength: > 16.00 N/mm<sup>2</sup>

Flexural strength: > 6.00 N/mm<sup>2</sup>

Elastic modulus: 15.60 GPa

Carbonation resistance: Pass

Chloride ion content: 0.00%

Adhesion: 1.7 N/mm<sup>2</sup>

Thermal compatibility Part 1 (50 freeze-thaw cycles) 1.6 N/mm<sup>2</sup>

Capillary absorption: 0.47 kg·m<sup>-2</sup>·h<sup>-0.5</sup>

Reaction to fire: Euroclass A1

#### DUROCRET Redbrown

Water demand: 4.60 l/25 kg bag

Bulk density of dry mortar: 1.55 ± 0.10 kg/l

Bulk density of fresh mortar: 1.95 ± 0.10 kg/l

Compressive strength: 13.00 ± 1.00 N/mm<sup>2</sup>

Flexural strength: 6.00 ± 0.10 N/mm<sup>2</sup>

Chloride ion content: 0.00%

Adhesion: 1.10 N/mm<sup>2</sup>

Capillary absorption: ≤ 0.5 kg·m<sup>-2</sup>·h<sup>-0.5</sup>

Reaction to fire: Euroclass A1

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## Directions for use

### 1. Substrate preparation

The substrate should be clean, free of dust, oily or loose materials etc. The surface should be dampened, before the application of DUROCRET.

### 2. Application

DUROCRET is added into water under continuous stirring, until a mixture of the desired workability is formed. The material is applied with a trowel, as usual.

- Consult the directions for safe use and precautions written on the package.

## Consumption

Approx. 15 kg/m<sup>2</sup>/cm of layer thickness.  
For forming fillets (5-6 cm wide): 1.9-2.7 kg/m.

## Packaging

DUROCRET is supplied in 25 kg paper bags and 5 kg plastic bags.

## Shelf-life - Storage


- 25 kg paper bags:  
12 months from production date.
- 5 kg plastic bags:  
18 months from production date.


The above information is valid, as long as the product is stored in original, unopened packaging, in places protected from moisture and frost.

## Remarks

- Temperature during application should be at least +5°C.
- In hot weather, DUROCRET should be watered after application, to be protected from water loss.
- DUROCRET contains cement that reacts with water forming alkaline solutions, thus is classified as irritant.

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EN 1504-3 Concrete repair product for non structural repair PCC mortar (based on hydraulic cement, polymer modified) DoP No.: DUROCRET-GREY/1203-03  Compressive strength: class R2 Chloride ion content: ≤ 0.05% Adhesion: ≥ 0.8 MPa Thermal compatibility part 1: ≥ 0.8 MPa Capillary absorption: ≤ 0.5 kg·m <sup>-2</sup> ·h <sup>-0.5</sup> Reaction to fire: Euroclass A1 Dangerous substances comply with 5.4


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EN 1504-3 Concrete repair product for non structural repair PCC mortar (based on hydraulic cement, polymer modified) DoP No.: DUROCRET-WHITE/1204-03  Compressive strength: class R2 Chloride ion content: ≤ 0.05% Adhesion: ≥ 0.8 MPa Thermal compatibility part 1: ≥ 0.8 MPa Capillary absorption: ≤ 0.5 kg·m <sup>-2</sup> ·h <sup>-0.5</sup> Reaction to fire: Euroclass A1 Dangerous substances comply with 5.4

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