Technical Datasheet



DUROCRET

Polymer-modified cementitious repair mortar

Description

DUROCRET is a pre-mixed, polymermodified, 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.

Certified according to EN 1504-3 and classified as a PCC R2 mortar for concrete repairs. CE marked.

Fields of application

DUROCRET is used for concrete or brickwork repair and patching, forming fillets at wall to floor junctions, etc. In the redbrown color, DUROCRET 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 localized repairs.

Technical data

Form: Colors:	cementitious powder grey, white, redbrown
Pot Life:	4 h at +20ºC
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/mm²
Flexural strength:	≥ 6.00 N/mm ²
Elastic modulus:	15.60 GPa
Carbonation resistance:	Pass
Chloride ion content:	0.00%
Adhesion:	≥ 1.7 N/mm ²

Thermal compatibility Part 1	
(50 freeze-thaw cycles): \geq 1.6 N/mm ²	

Capillary absorption:	0.45 kg [·] m ⁻² ·h ^{-0.5}
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 ²	
Flexural strength:	≥ 6.00 N/mm²	
Elastic modulus:	15.60 GPa	
Carbonation resistance:	Pass	
Chloride ion content:	0.00%	
Adhesion:	≥ 1.7 N/mm ²	
Thermal compatibility Part 1		
(50 freeze-thaw cycles)		
Capillary absorption:	0.47 [•] kg [•] m ⁻² •h ^{-0.5}	
Reaction to fire:	Euroclass A1	

DUROCRET Redbrown

Water demand:	4.60 l/25 kg bag	
Bulk density		
of dry mortar:	1.55 ± 0.05 kg/l	
Bulk density		
of fresh mortar:	1.95 ± 0.05 kg/l	
Compressive strength:	≥ 15.00 N/mm ²	
Flexural strength:	≥ 5.00 N/mm ²	
Chloride ion content:	0.00%	
Adhesion:	≥ 1.10 N/mm ²	
Thermal compatibility Part 1		
(50 freeze-thaw cycles)	≥ 1.00 N/mm²	
Capillary absorption:	≤ 0.5 kg [·] m ^{-2·} h ^{-0.5}	
Reaction to fire:	Euroclass A1	



DUROGRET

Directions for use

1. Substrate preparation

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

2. Application

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

Consumption

Approx. 15 kg/m²/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^oC.
- 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.

• Consult the safety instructions written on the packaging before use.



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10

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: $\leq 0.05\%$

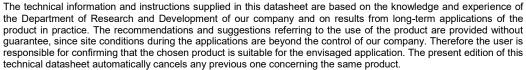
Adhesion: ≥ 0.8 MPa

Thermal compatibility part 1: ≥ 0.8 MPa

Capillary absorption: ≤ 0.5 kg·m⁻²·h^{-0.5}

Reaction to fire: Euroclass A1

Dangerous substances comply with 5.4







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CE

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10

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

Reaction to fire: Euroclass A1

Dangerous substances comply with 5.4

CE

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19

EN 1504-3

Concrete repair product for non-structural repair PCC mortar (based on hydraulic cement, polymer modified) DoP No.: DUROCRET-REDBROWN/1298-01

Compressive strength: class R2

Chloride ion content: $\leq 0.05\%$

Adhesion: ≥ 0.8 MPa

Thermal compatibility part 1: ≥ 0.8 MPa

Capillary absorption: ≤ 0.5 kg·m⁻²·h^{-0.5}

Reaction to fire: Euroclass A1

Dangerous substances comply with 5.4

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