

DUROCRET-FAST

Fast-setting, repairing cement mortar

Description

DUROCRET-FAST is a fast setting, fiber reinforced cementitious repairing mortar, enriched with polymers, without corrosion ingredients, for internal and external applications, offering:

- Abrasion resistance.
- Very good adhesion to the substrate.
- Superior workability.
- Simplification of works.

It is classified as type PCC R2, repairing cement mortar for concrete, according to EN 1504-3.

DUROCRET-FAST has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-09183, The International EPD® System.

Fields of application

DUROCRET-FAST is suitable for repairs on concrete, cement mortars, masonry, plasters and generally wherever high strength and fast application is necessary. DUROCRET-FAST is applied up to 3 cm thickness for large scale applications and up to 5 cm for localized repairs.

Technical data

Form:	cementitious powder
Color:	grey
Grain size:	up to 1.3 mm
Water demand:	4.50 l/25 kg bag
Pot life:	45 min at +20°C
Bulk density of dry mortar:	1.50 ± 0.10 kg/l
Bulk density of fresh mortar:	2.00 ± 0.10 kg/l
Compressive strength:	
• After 24 hours:	> 5.00 N/mm ²
• After 7 days:	> 15.00 N/mm ²
• After 28 days:	> 24.00 N/mm ²
Flexural strength:	
• After 24 hours:	> 2.00 N/mm ²
• After 7 days:	> 4.00 N/mm ²
• After 28 days:	> 6.00 N/mm ²

Adhesion strength:	≥1.5 MPa
Thermal compatibility Part 1 (50 freeze-thaw cycles):	≥ 1.4 MPa
Chloride ion content	0.00%
Capillary absorption	0.41 kg·m ⁻² ·h ^{-0.5}
Reaction to fire	Euroclass A1

Directions for use

1. Substrate

The substrate must be clean, free of dust, oil, loose materials etc. and should be thoroughly dampened, before the application of DUROCRET-FAST.

2. Application

DUROCRET-FAST is added into water under continuous stirring, until a mixture is formed. The material is applied using a trowel.

Consumption

Approx. 17 kg/m²/cm of layer thickness.

Packaging

DUROCRET-FAST is supplied in bags of 25 kg.

Shelf-life - Storage

12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

Remarks

- Application temperature should be between +5°C and +30°C.
- In high temperature conditions DUROCRET-FAST should be dampened after application in order to be protected from water loss.
- DUROCRET-FAST contains cement and reacts as alkaline with water, so it is classified as irritant.
- Consult the usage risks and safety advice written on the bag.

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EN 1504-3

DOP No.: DUROCRET FAST / 1201-03

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

Compressive strength: class R2

Chloride ion content: $\leq 0.05\%$

Adhesion: ≥ 0.8 MPa

Thermal compatibility part 1: ≥ 0.8 MPa

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

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

ISOMAT S.A.

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