

DUROCRET

Polymer-modified cementitious repair 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.

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:	cementitious powder
Colors:	grey, white, redbrown
Pot Life:	4 h at +20°C
<u>DUROCRET Grey</u>	
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 ²
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): ≥ 1.6 N/mm²

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/mm²

Flexural strength: ≥ 6.00 N/mm²

Elastic modulus: 15.60 GPa

Carbonation resistance: Pass

Chloride ion content: 0.00%

Adhesion: ≥ 1.7 N/mm²

Thermal compatibility Part 1
(50 freeze-thaw cycles) ≥ 1.6 N/mm²

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/mm²

Flexural strength: ≥ 5.00 N/mm²

Chloride ion content: 0.00%

Adhesion: ≥ 1.10 N/mm²

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

DUROCRET

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°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.

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


ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 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: ≤ 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

DUROCRET


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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 ⁻² ·h ^{-0.5} Reaction to fire: Euroclass A1 Dangerous substances comply with 5.4


ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 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: ≤ 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

ISOMAT S.A.
 BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
 17th km Thessaloniki - Ag. Athanasios Road,
 P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
 Tel.: +30 2310 576 000, Fax: +30 2310 722 475
www.isomat.eu e-mail: info@isomat.eu

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