

# 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.

DUROCRET-PLUS 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.

### 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

Form:	cementitious mortar
Colors:	grey
Grain size:	up to 1.3 mm
Pot Life:	4 h at +20°C
Water demand:	4.60 l/25 kg bag
Bulk density of dry mortar:	1.45 ± 0.10 kg/l
Bulk density of fresh mortar:	1.90 ± 0.10 kg/l
Compressive strength:	≥ 25.0 N/mm <sup>2</sup>
Flexural strength:	≥ 7.0 N/mm <sup>2</sup>
Elastic modulus:	≥ 15 GPa
Resistance to carbonation:	Pass
Chloride ion content:	0.00 %

Adhesion:	≥ 1.7 N/mm <sup>2</sup>
Thermal compatibility Part 1 (50 freeze-thaw cycles):	≥ 1.5 N/mm <sup>2</sup>
Capillary absorption of water:	0.34 kg·m <sup>-2</sup> ·h <sup>-0.5</sup>
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<sup>2</sup>/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.

# DUROCRET-PLUS

## Remarks

- Temperature during the application should be at least +5°C.
- 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.



2032

### ISOMAT S.A.

17<sup>th</sup> km Thessaloniki – Ag. Athanasios  
P.O. BOX 1043, 570 03 Ag. Athanasios,  
Greece

14

2032-CPR-10.11

EN 1504-3

### DoP No.: DUROCRET-PLUS/1265-01

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

Compressive strength: class R3

Chloride ion content:  $\leq 0.05\%$

Adhesion:  $\geq 1.5$  MPa

Carbonation resistance: Pass

Elastic modulus:  $\geq 15$  GPa

Thermal compatibility part 1:  $\geq 1.5$  MPa

Capillary absorption:  $\leq 0.5$  kg·m<sup>-2</sup>·h<sup>-0.5</sup>

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

### ISOMAT S.A.

BUILDING CHEMICALS, MORTARS & PAINTS

HEADQUARTERS – THESSALONIKI, GREECE

17<sup>th</sup> km Thessaloniki – Ag. Athanasios Road

P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

T +30 2310 576000

[www.isomat.eu](http://www.isomat.eu) e-mail: [support@isomat.eu](mailto:support@isomat.eu)