

## 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.

### 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
Water demand:	4, 50 l /25 kg bag
Pot life:	45 min at +20°C
Bulk density of dry mortar:	1,50 kg/l
Bulk density of fresh mortar:	2,00 kg/l
Compressive strength:	
• After 24 hours:	5,00 ± 0,50 N/mm <sup>2</sup>
• After 7 days:	16,00 ± 1,00 N/mm <sup>2</sup>
• After 28 days:	25,00 ± 1,00 N/mm <sup>2</sup>

Flexural strength:

- After 24 hours: 2,00± 0,30 N/mm<sup>2</sup>
- After 7 days: 4,00± 0,30 N/mm<sup>2</sup>
- After 28 days: 6,50± 0,30N/mm<sup>2</sup>

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<sup>-2</sup>·h<sup>-0,5</sup>

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/m<sup>2</sup>/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.

# DUROCRET-FAST



## 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.



### ISOMAT S.A.

17<sup>th</sup> 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)

Compressive strength: class R2

Chloride ion content:  $\leq 0,05\%$

Adhesive Bond:  $\geq 0,8$  MPa

Thermal compatibility part 1:  $\geq 0,8$  MPa

Capillary absorption:  $\leq 0,5 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

### ISOMAT S.A.

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.net](http://www.isomat.net) e-mail: [info@isomat.net](mailto:info@isomat.net)

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.

