

# ISOMAT REPAIR 5-70

## High strength, fiber-reinforced, polymer-modified, cementitious repair mortar

### Description

ISOMAT REPAIR 5-70 is a fiber-reinforced, polymer-modified, cementitious mortar, free from corrosive substances, for indoor and outdoor use, offering:

- high strength;
- very good adhesion to the substrate;
- simplification of works;
- volume stability.

Certified according to EN 1504-3 and classified as a PCC R3 concrete repair mortar. CE marked. Certificate No.: 2032-CPR-10.11.

### Fields of application

ISOMAT REPAIR 5-70 is suitable for repairing concrete and masonry surfaces, creating angle fillets, etc.

ISOMAT REPAIR 5-70 is applied in layers of up to 3 cm in case of large surfaces, and in layers of up to 7 cm for localized repairs.

### Technical data

|                               |                          |
|-------------------------------|--------------------------|
| Consistency:                  | cementitious mortar      |
| Color:                        | grey                     |
| Pot life:                     | 3 h at +20°C             |
| Water demand:                 | 4.60-5.0 l/ 25 kg bag    |
| Bulk density of dry mortar:   | 1.35 ± 0.10 kg/l         |
| Bulk density of fresh mortar: | 2.00 ± 0.10 kg/l         |
| Compressive strength:         | ≥ 40.0 N/mm <sup>2</sup> |
| Flexural strength:            | ≥ 8.0 N/mm <sup>2</sup>  |
| Elastic modulus:              | ≥ 15 GPa                 |
| Carbonation resistance:       | Pass                     |
| Chloride ion content:         | 0.00 %                   |
| Adhesion:                     | ≥ 1.5 N/mm <sup>2</sup>  |

|  |  |
|--|--|
| Adhesive strength after 50 freeze-thaw cycles: | ≥ 1.5 N/mm <sup>2</sup>                    |
| Capillary water absorption:                    | 0.35 kg·m <sup>-2</sup> ·h <sup>-0.5</sup> |
| Reaction to fire:                              | Euroclass A1                               |

### Directions for use

#### 1. Substrate preparation

The substrate must be free from dust, grease, etc. Before applying ISOMAT REPAIR 5-70, thoroughly dampen the substrate with water and then wait until excess water has evaporated; otherwise remove it with compressed air.

#### 2. Application

A 25 kg bag of ISOMAT REPAIR 5-70 is added to 4.6-5.0 l of water under continuous stirring until a homogeneous, firm paste suitable for repair work is obtained. A low speed mixer or a concrete mixer is recommended for mixing. The mixture is then trowel-applied or spayed to the desired thickness.

If recoating is required, it is recommended to roughen the surface of the first layer to ensure the better adhesion of the second one.

The final surface must be protected from dehydration either by covering it with wet hessian or polyethylene sheets, or by repeatedly dampening it with water for 48 hours.

### Consumption

Approx. 16.5 kg/m<sup>2</sup>/cm of layer thickness.  
For a 5-6 cm angle fillet: 2.3-3.3 kg/m.

### Packaging

25 kg bags.

# ISOMAT REPAIR 5-70

## Shelf life – Storage

12 months from production date if stored in original, unopened packaging, in a dry and frost-free place.

## Remarks

- Temperature during application must be at least +5°C.
- During the summer months, it is recommended to dampen the surface after applying ISOMAT REPAIR 5-70 to protect it from dehydration caused by high temperatures.
- Due to cement content, the product reacts with water forming alkaline solutions and thus is classified as irritant.
- Please consult the safety instructions written on the packaging before use.



2032

### ISOMAT S.A.

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

18

2032-CPR-10.11

EN 1504-3

DoP No.: ISOMAT REPAIR 5-70 /1280-01  
Concrete repair product for structural repair PCC mortar (based on hydraulic cement, polymer modified)

Compressive strength: Class R3

Chloride ion content:  $\geq 0.05\%$

Adhesion:  $\leq 1.5$  MPa

Carbonation resistance: Pass

Elastic modulus:  $\leq 15$  GPa

Thermal compatibility part 1:  $\leq 1.5$  MPa

Capillary absorption:  $\geq 0.5$  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 AND MORTARS

#### MAIN OFFICES - FACTORY:

17<sup>th</sup> km Thessaloniki – Ag. Athanasios Road,  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,  
Tel.: +30 2310 576 000, Fax: 22620 31 644

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