

# 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
- strong 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.

ISOMAT REPAIR 5-70 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-06172, The International EPD® System.

### Fields of application

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

ISOMAT REPAIR 5-70 is applied at a thickness of up to 3 cm for large surface areas, and up to 7 cm for localized repairs.

### Technical data

Consistency:	cementitious mortar
Color:	grey
Grain size:	up to 1.3 mm
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>
Adhesion 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, viscous 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 sprayed to the desired thickness.

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

The final surface must be protected from premature drying out for 48 hours by periodic dampening, covering it with wet cloths, polyethylene sheets or other suitable measures.

### 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

ISOMAT REPAIR 5-70 is available in 25 kg paper bags and 5 kg plastic bags.

# ISOMAT REPAIR 5-70

## Shelf life – Storage

- Paper bags of 25 kg:  
12 months from production date.
- Plastic bags of 5 kg:  
18 months from production date.

The shelf-life mentioned above is valid, provided that the product is stored in original, unopened packaging, in places protected from moisture and frost.

## 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 directions for safe use and precautions written on the packaging before use.



2032

### ISOMAT S.A.

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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: ≤ 0.05%

Adhesion: ≥ 1.5 MPa

Carbonation resistance: Pass

Elastic modulus: ≥ 15 GPa

Thermal compatibility part 1: ≥ 1.5 MPa

Capillary absorption: ≤ 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

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