# **Technical Datasheet**



# **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-10.11E.

# 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:  $1.35 \pm 0.10 \text{ kg/l}$ 

Bulk density

of fresh mortar:  $2.00 \pm 0.10 \text{ kg/l}$ Compressive strength:  $\geq 40.0 \text{ N/mm}^2$ Flexural strength:  $\geq 8.0 \text{ N/mm}^2$ Elastic modulus:  $\geq 15 \text{ GPa}$ 

Carbonation resistance: Pass
Chloride ion content: 0.00 %

Adhesion:  $\geq 1.5 \text{ N/mm}^2$ 

Adhesive strength after

50 freeze-thaw cycles: ≥ 1.5 N/mm<sup>2</sup>

Capillary water

absorption:  $0.35 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$ 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 I 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.

# Shelf life - Storage

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



# ISOMAT REPAIR 5-70

## 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

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## 2032-CPR-10.11E

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.

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