

## Polymer modified marble and granite adhesive

### Description

ISOMAT AK-MARBLE is a fast-setting, polymer modified cement-based marble and granite adhesive. It provides high initial and final adhesive strength and moisture resistance. It possesses increased open time for application. It prevents staining of sensitive overlays, such as marble layers, due to fast retention of water.

It is classified as type C2 E S1 adhesive according to EN 12004 and EN 12002.

### Fields of application

ISOMAT AK-MARBLE is suitable for fixing marble or granite on walls or floors on various surfaces and especially where high adhesion and moisture resistance are required. It is suitable for indoor or outdoor applications.

### Technical data

Form:	cementitious mortar
Color:	white
Water demand:	6,75 l/25 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 10 mm
Pot life:	at least 6 h
Open time:	at least 30 min
Minor adjustments open time:	at least 30 min
Pointing on walls:	after 3-8 h
Pointing on floors:	after 24 h
Adhesive strength after:	
• 24 hours:	≥ 0,50 N/mm <sup>2</sup>
• 28 days:	≥ 1,80 N/mm <sup>2</sup>
• heating in +70°C:	≥ 1,80 N/mm <sup>2</sup>
• immersion in water:	≥ 1,50 N/mm <sup>2</sup>
• 25 freeze-thaw cycles:	≥ 1,50 N/mm <sup>2</sup>

Temperature resistance: from -30°C to +90°C

Deformation ability according to EN 12002: > 2,50 mm

All measurements were conducted according to EN 12004.

### Directions for use

#### 1. Substrate

The surface to be overlaid must be clean, free of dust, grease, paint, loose material etc. Dampening of the substrate before application is recommended.

#### 2. Application

ISOMAT AK-MARBLE is gradually added into water under continuous stirring, until a uniform paste is formed. A low revolution mixer is recommended for mixing.

The mixture should be left about 10 minutes to settle and should be stirred slightly again. The tile adhesive should be spread ("combed") on the substrate using a notched trowel, in order to be uniformly applied on the whole surface. The marble or granite should be fixed by pressing them in the desired position.

The applied mixture must be covered with marble or granite within 30 minutes in order to avoid "skin" formation, i.e. before the adhesive film starts setting.

### Consumption

1,5-6,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate.

### Packaging

ISOMAT AK-MARBLE is supplied in paper bags of 25 kg.

# ISOMAT AK-MARBLE



## Shelf-life - Storage

12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

## Remarks

- ISOMAT AK-MARBLE contains cement and reacts as alkaline with moisture, so it is classified as irritant.
- Very porous surfaces such as aerated concrete, gypsum boards, chipboards etc. must be primed first with UNI-PRIMER acrylic primer.
- Consult usage risks and safety advice written on the bag.

<b>ISOMAT S.A.</b> 17 <sup>th</sup> km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag Athanasios, Greece 08	
<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-MARBLE/1044-01</b> <b>NB: 2032</b>  Improved deformable cementitious adhesive with extended open time, for internal and external tiling.	
<b>Reaction to fire</b>	Class A1
<b>Release of dangerous substances</b>	See MSDS
<b>Bond strength, as:</b>	
- initial tensile adhesion strength	≥ 1 N/mm <sup>2</sup>
<b>Durability, for</b>	
- tensile adhesion strength after heat ageing	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after water immersion	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm <sup>2</sup>

## 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 e-mail: info@isomat.net**

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