

# ISOMAT AK-STONE

## Coarse-grained tile and natural stone adhesive

### Description

ISOMAT AK-STONE is a coarse-grained, cement-based tile adhesive, suitable for thick layers (up to 15 mm). It provides high initial and final adhesive strength and moisture resistance. It possesses increased open time for application.

It is classified as type C1 E adhesive according to EN 12004.

### Fields of application

ISOMAT AK-STONE is suitable for fixing tiles or natural stone on walls or floors on surfaces made of concrete, brickwork, plaster etc., indoors or outdoors. Due to its ability to be applied in increased thickness, it can smooth out rough substrates.

### Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6.00 l/25 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 15 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:	
• 28 days:	≥ 1.10 N/mm <sup>2</sup>
• heating in +70°C:	≥ 0.50 N/mm <sup>2</sup>
• immersion in water:	≥ 0.65 N/mm <sup>2</sup>
• 25 freeze-thaw cycles:	≥ 0.50 N/mm <sup>2</sup>
Temperature resistance:	from -15°C to +60°C

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-STONE 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 tiles should be fixed by pressing them in the desired position.

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

### Elastification

For tiling on unstable substrates subject to vibrations or contraction-expansion effects, such as gypsum boards, chipboards, in-floor heating floors, terraces, balconies etc. it is necessary that the tile adhesive be elastified with the addition of 5-10 kg of ADIFLEX-B to 25 kg of ISOMAT AK-STONE plus a quantity of water depending on the desired workability.

### Consumption

2,0-8,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate.

### Packaging

ISOMAT AK-STONE is supplied in paper 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.

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## Remarks

- ISOMAT AK-STONE 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.

## ISOMAT AK-STONE GREY

	
<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-STONE GREY/1052-02</b> <b>NB: 2032</b> Normal setting 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	≥ 0,5 N/mm <sup>2</sup>
<b>Durability, for</b>	
- tensile adhesion strength after heat ageing	≥ 0,5 N/mm <sup>2</sup>
- tensile adhesion strength after water immersion	≥ 0,5 N/mm <sup>2</sup>
- tensile adhesion strength after freeze thaw cycles	≥ 0,5 N/mm <sup>2</sup>

## ISOMAT AK-STONE WHITE

	
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<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-STONE WHITE/1053-02</b> <b>NB: 2032</b> Normal setting cementitious adhesive with extended open time, for internal and external tiling.	
<b>Reaction to fire</b>	Class A1
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- tensile adhesion strength after freeze thaw cycles	≥ 0,5 N/mm <sup>2</sup>

**ISOMAT S.A.**  
BUILDING CHEMICALS, MORTARS & PAINTS  
**HEADQUARTERS – THESSALONIKI, GREECE**  
17<sup>th</sup> km Thessaloniki – Ag. Athanasios Road  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece  
T +30 2310 576000  
[www.isomat.eu](http://www.isomat.eu) e-mail: [support@isomat.eu](mailto:support@isomat.eu)