

# ISOMAT AK 10

## Tile adhesive for floors and walls

### Description

ISOMAT AK10 is a non-slip, cement-based tile adhesive for floors and walls. Provides high initial and final adhesive strength, as well as moisture resistance. Certified according to EN 12004 and classified as type C1 T adhesive. CE marked.

### Fields of application

ISOMAT AK 10 is suitable for fixing ceramic tiles on walls or floors, on surfaces made of concrete, brickwork, plaster, etc., indoors or outdoors.

### Technical data

Form:	cementitious mortar
Colors:	grey, 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 20 min
Minor adjustments open time:	at least 30 min
Slip:	≤ 0.5 mm
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>
Service temperature:	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 materials, etc. Dampening of the substrate before application is recommended.

#### 2. Application

ISOMAT AK 10 is gradually added to water under continuous stirring, until a uniform paste is formed. A low speed mixer is recommended for mixing.

The mixture should be left for about 5 minutes to settle and should be stirred slightly again. The tile adhesive should be spread and "combed" on the substrate using a notched trowel, in order to be uniformly applied on the whole surface. The tiles should be pressure-fixed to the desired position.

The applied mixture must be covered with tiles within 20 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, heated floors, terraces, balconies, etc. it is necessary to add 5-10 kg of ADIFLEX-B to 25 kg of ISOMAT AK 10, plus a quantity of water depending on the desired workability, so that the tile adhesive becomes more flexible.

### Consumption

1.5-4.0 kg/m<sup>2</sup>, depending on the trowel notch size and the nature of the substrate.

# ISOMAT AK 10

## Packaging

ISOMAT AK 10 is supplied in paper bags of 25 kg and plastic bags of 5 kg.

## Shelf life – Storage


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

All of the above are in effect if the product is stored in original, unopened packaging, in cool, dry conditions.

## Remarks


- Due to cement content, ISOMAT AK 10 reacts with moisture forming alkaline solutions, thus 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.
- Please consult the safety instructions written on the packaging before use.

## ISOMAT AK-10 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-10 GREY/1011-01</b> <b>NB: 2032</b> Normal setting cementitious adhesive with reduced slip, 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 10

## ISOMAT AK-10 WHITE

	
<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-10 WHITE/1012-01</b> <b>NB: 2032</b>  Normal setting cementitious adhesive with reduced slip, 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 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.eu e-mail: info@isomat.eu**