

## High performance, flexible, polymer-modified tile adhesive

### Description

ISOMAT AK 20 is a high quality, polymer-modified, cement-based tile adhesive. It provides high initial and final adhesive strength, resistance to moisture and elasticity. It is qualified as absolutely non-slip (zero slipping of the tile) and possesses increased open time. It is classified as type C2 TE S1 adhesive according to EN 12004 and EN 12002.

### Fields of application

ISOMAT AK 20 is suitable for fixing absorptive or non-absorptive tiles (e.g. "gres porcelanato"), natural stone, decorative bricks, large tiles etc. on walls or floors on various substrates, especially where high adhesion, elasticity and moisture resistance are required (e.g. old tile layers, floors with in-floor heating etc.). Suitable for indoor or outdoor use.

### Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	7,75 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
Slip:	≤ 0,5 mm
Pointing on walls:	after 3-8 h
Pointing on floors:	after 24 h
Adhesive strength after:	
• 28 days:	≥ 1,75 N/mm <sup>2</sup>
• heating in +70°C:	≥ 1,50 N/mm <sup>2</sup>
• immersion in water:	≥ 1,30 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: > 2,5 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 20 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.

# ISOMAT AK 20



## Consumption

1,5-4,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate.

## Packaging

ISOMAT AK 20 is supplied in paper bags of 15 kg and 25 kg and plastic bags of 5 kg.

## Shelf-life - Storage

- Paper bags of 25 kg and 15 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 places protected from moisture and frost.

## Remarks

- ISOMAT AK 20 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-20 GREY



### ISOMAT S.A.

17<sup>th</sup> km Thessaloniki – Ag. Athanasios  
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

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### EN 12004:2007+A1:2012

DoP No.: ISOMAT AK-20 GREY/1003-01  
NB: 2032

Improved deformable cementitious adhesive with reduced slip and 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 AK 20



## ISOMAT AK-20 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-20 WHITE/1004-01</b> <b>NB: 2032</b>  Improved deformable cementitious adhesive with reduced slip and extended open time, for internal and external tiling.	
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**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](http://www.isomat.net) e-mail: [info@isomat.net](mailto:info@isomat.net)

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