

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

### Description

ISOMAT AK 25 is a high-performance tile adhesive with high elasticity. It is cement-based and enriched with polymers (resins). It provides high adhesive strength and resistance to moisture. It is qualified as absolutely non-slip and possesses increased open time. It is classified as C2 TE S2 adhesive, according to EN 12004 and EN 12002.

### Fields of application

ISOMAT AK 25 is suitable for fixing absorptive or non-absorptive tiles (e.g. "gres porcellanato"), natural stone, decorative bricks, large tiles, on walls or floors. Especially appropriate where high adhesion, elasticity and moisture resistance are required for vibrative or dimensionally unstable substrates such as balconies, terraces, in-floor heating systems, metal surfaces, wood floorings, old tile layers, swimming pools etc. Suitable for indoor and outdoor applications.

### Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	7.00 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
Slip:	≤ 0.5 mm
Pointing on walls:	after 4-8 h
Pointing on floors:	after 24 h

Adhesive strength after:

- 28 days:  $\geq 2.00 \text{ N/mm}^2$
- heating at +70°C:  $\geq 2.00 \text{ N/mm}^2$
- immersion in water:  $\geq 1.20 \text{ N/mm}^2$
- 25 freeze-thaw cycles:  $\geq 1.20 \text{ N/mm}^2$

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

Deformation ability

according to EN 12002: > 5.0 mm

All measurements were conducted according to EN 12004.

### Directions for use

#### 1. Substrate preparation

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

#### 2. Application

ISOMAT AK 25 is gradually added into 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 10 minutes to settle, before it is slightly stirred again. The tile adhesive should be spread ("combed") on the substrate with a notched trowel, in order to be uniformly applied on the whole surface. The tiles should be fixed with pressure at the desired position.

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

### Consumption

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

# ISOMAT AK 25



## Packaging

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

## Storage

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

This information is valid, as long as the product is stored in original, unopened packaging, in places protected from moisture and frost.

## Remarks

- ISOMAT AK 25 contains cement that reacts with moisture, forming alkaline solutions, thus is classified as irritant.
- Very porous surfaces, such as aerated concrete, gypsum boards, chipboards etc. must be previously primed with UNI-PRIMER acrylic primer.
- Consult the directions for safe use and precautions written on the package.

## ISOMAT AK-25 GREY



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**EN 12004:2007+A1:2012**  
**DoP No.: ISOMAT AK-25 GREY/1007-01**  
**NB: 2032**

Improved highly 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>

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.



# ISOMAT AK 25



## ISOMAT AK-25 WHITE

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<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-25 WHITE/1008-01</b> <b>NB: 2032</b>  Improved highly deformable cementitious adhesive with reduced slip and extended open time, for internal and external tiling.	
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