

# ISOMAT AK 22

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

### Description

ISOMAT AK 22 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 and shows increased open time.

It is classified as a C2 TE S1 adhesive, according to EN 12004 and EN 12002.

### Fields of application

ISOMAT AK 22 is suitable for fixing absorbent or non-absorbent tiles (e.g. “gres porcellanato”), natural stones, decorative bricks, large tiles, glass mosaic tiles, etc. on walls or floors on various substrates, especially where particularly high adhesion, elasticity and moisture resistance are required (e.g. old tile layers, floors with in-floor heating, metal surfaces, swimming pools, gypsum boards, 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 <sup>0</sup> C to +35 <sup>0</sup> 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
Grouting on walls:	after 3-8 h
Grouting on floors:	after 24 h

Adhesion after:

- 28 days: ≥ 1.90 N/mm<sup>2</sup>
- heating in +70°C: ≥ 1.90 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: > 2.5 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 material, etc. It is recommended to dampen the substrate before application.

#### 2. Application

ISOMAT AK 22 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 by pressure at the desired position.

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

### Consumption

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

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## Packaging

Available in:

- 5 kg plastic bags in grey and white,
- 15 kg paper bags in white and
- 25 kg paper bags in grey and white.

## Shelf-life - Storage

- 15 kg and 25 kg paper bags:  
12 months from production date.
- 5 kg plastic bags:  
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 22 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-22 GREY

	
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<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-22 GREY/1005-01</b> <b>NB: 2032</b>  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 22



## ISOMAT AK-22 WHITE

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<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-22 WHITE/1006-01</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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- 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>

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