

ISOMAT AK 25

High performance, ultra flexible, polymer-modified adhesive for all tile types, even on substrates subject to expansion/contraction and vibration

Description

ISOMAT AK 25 is a high performance, ultra flexible cement-based tile adhesive, enhanced with polymers (resins), with extended open time and no vertical slip. Provides high adhesion strength and resistance to moisture. Certified according to EN 12004 and classified as C2 TE S2 adhesive. CE marked.

Fields of application

ISOMAT AK 25 is suitable for fixing absorbent or non-absorbent tiles (e.g. "grès porcellanato"), natural stone, decorative bricks, large-format tiles, on walls or floors. Especially suitable for applications where ultra flexibility, high adhesion and moisture resistance are required and for substrates subject to severe expansion/contraction or vibration, such as balconies, flat roofs, heated floors, metal surfaces, wood floors, old tile layers, swimming pools, gypsum boards, etc. For indoor and outdoor applications.

Technical data

Form:	cementitious powder
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
Grouting on walls:	after 4-8 h
Grouting on floors:	after 24 h

Adhesion 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: $\geq 1.20 \text{ N/mm}^2$

Service temperature: from -30°C to +90°C

Deformability: > 5.0 mm
(EN 12004-2):

All measurements were conducted according to EN 12004-2.

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 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, 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. Tiles should be fixed by being pressed to the desired position.

The applied mixture 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/m², depending on the trowel 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 cool, dry conditions.

Remarks


- Due to cement content, ISOMAT AK 25 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.
- Please consult the safety instructions written on the packaging before use.

ISOMAT AK 25

ISOMAT AK-25 GREY

	
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 10	
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.	
Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength, as:	
- initial tensile adhesion strength	≥ 1 N/mm ²
Durability, for	
- tensile adhesion strength after heat ageing	≥ 1 N/mm ²
- tensile adhesion strength after water immersion	≥ 1 N/mm ²
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm ²

ISOMAT AK-25 WHITE

	
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- tensile adhesion strength after heat ageing	≥ 1 N/mm ²
- tensile adhesion strength after water immersion	≥ 1 N/mm ²
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm ²

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