Technical Datasheet

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. Formulated with specially selected aggregates and additives, it ensures outstanding workability and ease of application. Furthermore, its advanced formulation allows for thicker adhesive beds that remain stable during tile installation, making it ideal when dealing with uneven substrates.
Certified according to EN 12004 and classified as C2 TE S2 adhesive. CE marked.
ISOMAT AK-25 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: EPD-IES-0006170, The International EPD® System.

Fields of application

ISOMAT AK-25 is suitable for fixing all types of wall and floor tiles, including absorbent and non-absorbent tiles (e.g. grès porcellanato), natural stone, decorative bricks, large-format tiles, etc. Well-suited for applications where ultra flexibility, high adhesion and moisture resistance are required and for substrates subject to movement due to 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:	7.25-7.75 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
Wall grouting:	after 4-8 h
Floor grouting:	after 24 h
Adhesion strength after:	
• 28 days:	≥ 2.50 N/mm^2
• heaing at +70°C:	≥ 2.50 N/mm^2
• immersion in water:	≥ 1.30 N/mm^2
• 25 freeze-thaw cycles:	≥ 1.40 N/mm^2
Service temperature:	from -30°C to +90°C
Deformability: (EN 12004-2):	> 5.0 mm

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 to stand for about 5 minutes, before is slightly stirred again. The tile adhesive should be uniformly applied (“combed”) over the entire surface with a notched trowel. Tiles should be firmly fixed to the desired position.
The applied mixture must be covered with tiles within 30 minutes to avoid film formation, i.e. before the adhesive film starts to set.

Consumption

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

Packaging

ISOMAT AK-25 is supplied in 25 kg paper bags.

ISOMAT AK-25

Storage

12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

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 GREY

CE

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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

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department 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. | Edition: 17.06.2025

ISOMAT AK-25

ISOMAT AK-25 WHITE

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

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