

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.

ISOMAT AK-25 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-06170, 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

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| 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: $\geq 2.50 \text{ N/mm}^2$
- heating at +70°C: $\geq 2.50 \text{ N/mm}^2$
- immersion in water: $\geq 1.30 \text{ N/mm}^2$
- 25 freeze-thaw cycles: $\geq 1.40 \text{ N/mm}^2$

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

Deformability: $> 5.0 \text{ mm}$
(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 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/m², depending on trowel notch size and the nature of the substrate.

Packaging

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

Storage


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

ISOMAT AK-25


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

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| 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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| 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 WHITE/1008-01 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 |

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