

ISOMAT AK-22

High-performance, extra-flexible, polymer-modified adhesive for all tile types, even on vibrating substrates

Description

ISOMAT AK-22 is a high-performance, extra-flexible, cement-based tile adhesive, enhanced with resins, with no vertical slip and extended open time. Provides high initial and final adhesion strength, extra flexibility and resistance to moisture.

Certified according to EN 12004 and classified as a C2 TE S1 adhesive. CE marked.

ISOMAT AK-22 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-22 is suitable for fixing all types of walls and floors tiles, including absorbent and non-absorbent tiles (e.g. grès porcellanato), natural stone, decorative bricks, large-format tiles, etc. Well-suited for applications where extra flexibility, high adhesion and moisture resistance are required, such as existing ceramic tiled layers, heated floors, metal surfaces, swimming pools, etc.). For indoor and outdoor use.

Technical data

Form:	cementitious powder
Colors:	grey, white
Water demand:	7.50-8.00 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
Wall grouting:	after 3-8 h
Floor grouting:	after 24 h
Temperature resistance:	from -30°C to +90°C

Adhesion strength after:

- 28 days: $\geq 2.00 \text{ N/mm}^2$
- heating in +70°C: $\geq 2.00 \text{ N/mm}^2$
- immersion in water: $\geq 1.30 \text{ N/mm}^2$
- 25 freeze-thaw cycles: $\geq 1.40 \text{ N/mm}^2$

Deformability (EN 12004-2): $> 2.5 \text{ mm}$

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 material, etc. It is recommended to dampen the substrate before application.

2. Application

ISOMAT AK-22 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 and then stirred again. The tile adhesive should be uniformly spread ("combed") over the entire surface with a notched trowel. The 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 setting.

Consumption

1.5-4.0 kg/m², depending on the trowel notch size and the nature of the substrate.

Packaging

Available in:

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

ISOMAT AK-22

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 its original, unopened packaging, in places protected from moisture and frost.

Remarks

- Due to cement content, ISOMAT AK-22 reacts with moisture forming alkaline solutions, and 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 directions for safe use and precautions written on the packaging before use.

ISOMAT AK-22 GREY

	
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 08	
EN 12004:2007+A1:2012 DoP No.: ISOMAT AK-22 GREY/1005-01 NB: 2032 Improved 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-22

ISOMAT AK-22 WHITE

	
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EN 12004:2007+A1:2012 DoP No.: ISOMAT AK-22 WHITE/1006-02 NB: 2032 Improved 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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