

Polymer-modified adhesive for decorative overlayers

Description

ISOMAT AK-GRAND is a coarse-grained, polymer modified cement-based tile adhesive for decorative overlayers. It is suitable for thick layers (up to 20 mm). It provides high initial and final adhesive strength and moisture resistance. It possesses increased open time for application.

It can also be used for pointing (grouting) in the above applications.

It is classified as type C2 E adhesive according to EN 12004.

Fields of application

ISOMAT AK-GRAND is suitable for fixing and pointing decorative overlayers (artificial stone, slate, decorative bricks etc.) on walls or floors on various surfaces and especially where high adhesion and moisture resistance are required, indoors or outdoors. Due to its ability to be applied in increased thickness, it can smooth out rough substrates.

Technical data

Form:	cementitious mortar
Colors:	grey, white, beige
Water demand:	7,00 l/25 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 20 mm
Pot life:	at least 6 h
Open time:	at least 30 min
Minor adjustments open time:	at least 30 min
Pointing on walls:	after 3-8 h
Pointing on floors:	after 24 h
Adhesive strength after:	
• 28 days:	≥ 1,60 N/mm ²
• heating in +70°C:	≥ 1,50 N/mm ²
• immersion in water:	≥ 1,30 N/mm ²
• 25 freeze-thaw cycles:	≥ 1,50 N/mm ²

Temperature resistance: from -30°C to +90°C

All measurements were conducted according to EN 12004.

Directions for use

1. Substrate

The surface to be covered with tiles should be totally clean, free of dust, grease, paint etc. It is recommended to be dampened before application.

2. Application

a) Fixing decorative overlayers

ISOMAT AK-GRAND is gradually added into water under continuous stirring, until a uniform paste is formed. A low revolution mixer is recommended for mixing. The mixture should be left about 10 minutes to rest and should be stirred slightly again. The tile adhesive is spread on the substrate using a notched trowel, in order to be applied uniformly on the whole surface. The tiles are fixed by pressing them in the desired position.

The mixture should be covered with tiles in 30 minutes at most, to avoid skin formation on the surface of the adhesive, that is before the setting of the adhesive film.

b) Pointing decorative overlayers

In case of using the adhesive for pointing, the joints are filled with ISOMAT AK-GRAND by trowel and the surface is smoothed with a very thin trowel or a special blade. At the same time the finishing work is done with a slightly wet sponge. Finally, the surface of the tiles is cleaned with a dry cloth.

ISOMAT AK-GRAND



Elastification

For tiling on unstable substrates subject to vibrations or contraction-expansion effects, such as gypsum boards, chipboards, in-floor heating floors, terraces, balconies etc. it is necessary that the tile adhesive be elastified with the addition of 5-10 kg of ADIFLEX-B to 25 kg of ISOMAT AK-GRAND plus a quantity of water depending on the desired workability.

Consumption

a) Tiling of decorative overlayers

2,0-8,0 kg/m², depending on the trowel's notch size and the kind of the substrate.

b) Pointing decorative overlayers

0,5-5,0 kg/m², depending on the width and depth of the joint.

Packaging

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

Shelf-life - Storage

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

Remarks

- ISOMAT AK-GRAND contains cement and reacts as alkaline with moisture, so it is classified as irritant.
- Very porous surfaces such as aerated concrete, gypsum boards, chipboards etc. must be primed first with UNI-PRIMER acrylic primer.

- In case of using elasticized or partly elasticized adhesive for grouting, the stones or decorative bricks must be cleaned fast and with care.
- Consult usage risks and safety advice written on the bag.

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-GRAND GREY/1054-01 NB: 2032	
Improved cementitious adhesive with extended open time, for internal and external tiling.	
Reaction to fire	Class A1
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-GRAND



ISOMAT AK-GRAND WHITE

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- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm ²

ISOMAT AK-GRAND BEIGE

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Reaction to fire	Class A1
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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