

High performance, polymer-modified adhesive

Description

ISOMAT AK16 is a high performance, cement base polymer-modified adhesive. It offers high initial and final adhesive strength and resistance to moisture. It is qualified as absolutely non-slip and shows increased open time.

It is classified as type C2TE adhesive according to EN 12004.

Fields of application

ISOMAT AK 16 is suitable for fixing absorbent or non-absorbent tiles (e.g. "gres porcellanato"), on walls or floors on various substrates, especially where particularly high adhesion, elasticity and moisture resistance are required. It is suitable for indoor or outdoor use.

Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6.75 kg/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
Pointing on walls:	after 3-8 h
Pointing on floors:	after 24 h
Slip:	≤ 0.5 mm
Adhesive strength after:	
• 28 days:	≥ 1.20 N/mm ²
• heating in +70°C:	≥ 1.20 N/mm ²
• immersion in water:	≥ 1.00 N/mm ²
• 25 freeze-thaw cycles:	≥ 1.10 N/mm ²
Temperature resistance:	from -30°C to +90°C

All measurements were conducted according to EN 12004.

Directions for use

1. Substrate preparation

The surface to be overlaid must be clean, free of dust, grease, paint, loose material etc. Dampening of the substrate before application is recommended.

2. Application

ISOMAT AK 16 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 settle and should be stirred slightly again. The tile adhesive should be spread ("combed") on the substrate using a notched trowel, in order to be uniformly applied on the whole surface. The tiles should be fixed by pressing them in the desired position.

The applied mixture must be covered with tiles within 30 minutes in order to avoid "skin" formation, i.e. before the adhesive film starts setting.

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 16 plus a quantity of water depending on the desired workability.

Consumption

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

ISOMAT AK 16



Packaging

ISOMAT AK 16 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 16 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.
- Consult usage risks and safety advice written on the bag.

ISOMAT AK-16 GREY

ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 11	
EN 12004:2007+A1:2012 DoP No.: ISOMAT AK-16 GREY/1024-01 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 S.A.
BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 722 475
www.isomat.eu e-mail: info@isomat.eu

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