

ISOMAT AK-14

Polymer-modified adhesive, with no vertical slip and extended open time, for ceramic and porcelain tiles

Description

ISOMAT AK-14 is a polymer-modified, cement-based tile adhesive. It provides high initial and final adhesive strength and resistance to moisture. It is qualified as absolutely non-slip (zero slipping of the tile) and possesses increased open time. It is classified as type C1 TE adhesive according to EN 12004.

Fields of application

ISOMAT AK-14 is suitable for fixing ceramic tiles on walls or floors on surfaces made of concrete, brickwork, plaster etc., indoors or outdoors. It can be used for fixing granite tiles and non-absorptive wall or floor tiles on various substrates such as concrete, brickwork, plaster etc. indoors.

Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6.50 l/25 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 10 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:	≥ 0.80 N/mm ²
• heating in +70°C:	≥ 0.60 N/mm ²
• immersion in water:	≥ 0.90 N/mm ²
• 25 freeze-thaw cycles:	≥ 0.70 N/mm ²
Temperature resistance:	from -15°C to +60°C
All measurements were conducted according to EN 12004.	

Directions for use

1. Substrate

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-14 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-14 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.

Packaging

ISOMAT AK-14 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.

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Remarks

- ISOMAT AK-14 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-14 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-14 GREY/1023-02 NB: 2032 Normal setting cementitious adhesive with reduced slip and 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	≥ 0,5 N/mm ²
Durability, for	
- tensile adhesion strength after heat ageing	≥ 0,5 N/mm ²
- tensile adhesion strength after water immersion	≥ 0,5 N/mm ²
- tensile adhesion strength after freeze thaw cycles	≥ 0,5 N/mm ²

ISOMAT AK-14 WHITE

	
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EN 12004:2007+A1:2012 DoP No.: ISOMAT AK-14 WHITE/1083-01 NB: 2032 Normal setting cementitious adhesive with reduced slip and 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	≥ 0,5 N/mm ²
Durability, for	
- tensile adhesion strength after heat ageing	≥ 0,5 N/mm ²
- tensile adhesion strength after water immersion	≥ 0,5 N/mm ²
- tensile adhesion strength after freeze thaw cycles	≥ 0,5 N/mm ²

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