

Technical Datasheet

ISOMAT AK-10

Tile adhesive for floors and walls

Description

ISOMAT AK-10 is a non-slip cement-based tile adhesive for floors and walls. Provides high initial and final adhesion strength and moisture resistance.

Certified according to EN 12004 and classified as type C1 T adhesive. CE marked.

Fields of application

ISOMAT AK-10 is suitable for fixing ceramic wall and floor tiles to a variety of substrates including concrete, brickwork, plaster, etc. For interior and exterior tile grouting applications.

Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6.50-7.00 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 20 min
Minor adjustments open time:	at least 30 min
Slip:	≤ 0.5 mm
Wall grouting:	after 3-8 h
Floor grouting:	after 24 h
Adhesion strength after:	
• 28 days:	≥ 1.10 N/mm ²
• heating in +70°C:	≥ 0.50 N/mm ²
• immersion in water:	≥ 0.65 N/mm ²
• 25 freeze-thaw cycles:	≥ 0.50 N/mm ²
Service temperature:	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. It is recommended that the substrate be dampened prior to application.

2. Application

ISOMAT AK-10 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 for approx. 5 minutes to stand and should be stirred slightly again. The tile adhesive should be spread and "combed" on the substrate using a notched trowel, in order to be uniformly applied over the entire surface. The tiles should be firmly pressed to the desired position.

The applied mixture must be covered with tiles within 20 minutes to avoid "skin" formation, i.e. before the adhesive film starts setting.

Elastification

In cases where additional adhesion or flexibility is required, such as unstable substrates subject to vibration or expansion/contraction effects (e.g. gypsum boards, chipboards, heated floors, terraces, balconies, etc.), it is necessary to add up to 3.35 kg of ADIFLEX-B to 25 kg of ISOMAT AK-10, plus the amount of water needed to obtain the desired workability, so that the tile adhesive becomes more flexible.

Consumption

1.5-4.0 kg/m², depending on trowel notch size and substrate type.

Packaging

ISOMAT AK-10 is supplied in 25 kg paper bags and 5 kg plastic bags.

ISOMAT AK-10

Shelf life – Storage

- 25 kg paper bags:
12 months from production date.
- 5 kg plastic bags:
18 months from production date.

All of the above are in effect if the product is stored in original, unopened packaging, in dry and frost-free conditions.

Remarks

- Due to cement content, ISOMAT AK-10 reacts with moisture forming alkaline solutions, thus 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.
- Please consult the directions for safe use and precautions written on the packaging before use.

ISOMAT AK-10 GREY



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EN 12004:2007+A1:2012


DoP No.: ISOMAT AK-10 GREY/1011-01
NB: 2032

Normal setting cementitious adhesive with reduced slip, 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-10

ISOMAT AK-10 WHITE

	
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EN 12004:2007+A1:2012 DoP No.: ISOMAT AK-10 WHITE/1012-01 NB: 2032 Normal setting cementitious adhesive with reduced slip, 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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