

ISOMAT AK-MARBLE

High-performance polymer-modified marble and granite adhesive

Description

ISOMAT AK-MARBLE is a quick-setting, polymer-modified, cement-based adhesive for marble and granite. Provides extended open time, high initial and final adhesion strength and resistance to moisture.

Thanks to its water-binding capacity, it is well-suited for stain-sensitive overlays, such as marble. Certified according to EN 12004 and classified as type C2 E S1 adhesive. CE marked.

Fields of application

ISOMAT AK-MARBLE is suitable for fixing marble or granite to walls and floors, to a variety of substrates. Ideal in cases where high adhesion and moisture resistance are required. Suitable also for floors with underfloor heating. For indoor and outdoor applications.

Technical data

Form:	cementitious mortar
Color:	white
Water demand:	6.75-7.25 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
Wall grouting:	after 3-8 h
Floor grouting:	after 24 h
Adhesive strength after:	
• 24 hours:	≥ 0.50 N/mm ²
• 28 days:	≥ 1.80 N/mm ²
• heating at +70°C:	≥ 1.80 N/mm ²
• immersion in water:	≥ 1.50 N/mm ²
• 25 freeze-thaw cycles:	≥ 1.50 N/mm ²

Service temperature: from -30°C to +90°C

Deformation ability
according to EN 12004-2: > 2.50 mm

All measurements were conducted according to EN 12004-2.

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-MARBLE is slowly 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 min and then stirred again for a bit. The tile adhesive should be uniformly spread ("combed") over the entire surface using a notched trowel. The marble or granite should be firmly pressed to the desired position.

The applied mixture must be covered with marble or granite within 30 min to avoid "skin" formation, i.e. before the adhesive film starts to set.

Consumption

1.5-6.0 kg/m², depending on trowel notch size and substrate type.

Packaging

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

Shelf life – Storage

12 months from production date if stored in original, unopened packaging, in frost-free and dry conditions.

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Remarks

- Due to cement content, ISOMAT AK-MARBLE reacts with moisture forming alkaline solutions, thus is classified as irritant.
- Very porous surfaces such as aerated concrete, gypsum boards, chipboards, etc. must be primed first with UNI-PRIMER acrylic primer.
- For highly absorbent and stain-sensitive marble or granite tiles, please consult ISOMAT's Technical Support Department. It is also advised that you test a small area before applying to the entire surface.
- Please consult the directions for safe use and precautions written on the packaging before use.



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EN 12004:2007+A1:2012
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NB: 2032

Improved deformable cementitious adhesive with 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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