

ISOMAT AK 10

Tile adhesive for floors and walls

Description

ISOMAT AK10 is a non-slip, cement-based tile adhesive for floors and walls. Provides high initial and final adhesive strength, as well as 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 tiles on walls or floors, on surfaces made of concrete, brickwork, plaster, etc., indoors or outdoors.

Technical data

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| Form: | cementitious mortar |
| Colors: | grey, white |
| Water demand: | 6.75 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 |
| Grouting on walls: | after 3-8 h |
| Grouting on floors: | after 24 h |
| Adhesive 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. Dampening of the substrate before application is recommended.

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 about 5 minutes to settle 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 on the whole surface. The tiles should be pressure-fixed to the desired position.

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

Elastification

For tiling on unstable substrates subject to vibration or expansion-contraction, such as gypsum boards, chipboards, heated floors, terraces, balconies, etc. it is necessary to add 5-10 kg of ADIFLEX-B to 25 kg of ISOMAT AK 10, plus a quantity of water depending on the desired workability, so that the tile adhesive becomes more flexible.

Consumption

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

Packaging

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

ISOMAT AK 10

Shelf life – Storage


- Paper bags of 25 kg:
12 months from production date.
- Plastic bags of 5 kg:
18 months from production date.

All of the above are in effect if the product is stored in original, unopened packaging, in cool, dry 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 safety instructions written on the packaging before use.

ISOMAT AK-10 GREY

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| 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-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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| 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-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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