Technical Datasheet

ISOMAT AK-RAPID

High-performance, fast-setting, polymer-modified, cement-based tile adhesive

Description

ISOMAT AK-RAPID is a high-performance, fast-setting, polymer-modified, cement-based tile adhesive with no vertical slip. It provides high initial and final adhesion strength and moisture resistance. Formulated with specially selected aggregates and additives, it ensures outstanding workability and ease of application. Furthermore, its advanced formulation allows for thicker adhesive beds that remain stable during tile installation, making it ideal when dealing with uneven substrates.
Certified according to EN 12004 and classified as type C2 FT adhesive. CE marked.

Fields of application

ISOMAT AK-RAPID is suitable for fixing absorbent or non-absorbent wall and floor tiles to a variety of surfaces, e.g. concrete, brickwork, plaster, etc. It is ideal in cases where fast return-to-service is required, e.g. work spaces etc. For interior and exterior use.

Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6.75-7.25 l/25 kg bag
Application temperature:	from +5ºC to +35ºC
Application thickness:	up to 10 mm
Pot life:	at least 90 min
Open time:	at least 20 min
Minor adjustments open time:	at least 10 min
Slip:	≤ 0.5 mm
Wall grouting:	after 1-2 h
Floor grouting:	after 2-3 h
Adhesive strength after:	
• 3 hours:	≥ 0.15 N/mm^2
• 6 hours:	≥ 0.50 N/mm^2
• 28 days:	≥ 1.40 N/mm^2
• heating in +70ºC:	≥ 1.00 N/mm^2
• immersion in water:	≥ 1.00 N/mm^2
• 25 freeze-thaw cycles:	≥ 1.00 N/mm^2

Service temperature: from -30ºC to +90ºC

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-RAPID 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 to rest for about 3 minutes and then stirred again. The tile adhesive should be spread (“combed”) on the substrate using a notched trowel, in order to be uniformly applied over the entire surface. The marble or granite should be firmly pressed to the desired position.
The applied mixture must be covered with marble or granite within 20 minutes in order to avoid “skin” formation, i.e. before the adhesive film starts setting.

Elastification

When tiling unstable substrates subject to movement caused by vibration or expansion/ contraction effects, such as gypsum boards, chipboards, plywood, heated floors, terraces, balconies, etc., it is necessary to add up to 3.25 kg of ADIFLEX-B to 25 kg of ISOMAT AK RAPID, plus a certain amount of water depending on the desired workability, so that the tile adhesive becomes more flexible.

Consumption

1.5-4.0 kg/m^2, depending on the trowel notch size and the nature of the substrate.

ISOMAT AK-RAPID

Packaging

ISOMAT AK-RAPID 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

- Due to cement content, ISOMAT AK-RAPID 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.
- Please consult the safety instructions written on the bag before use.

ISOMAT AK-RAPID GREY

CE

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

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EN 12004:2007+A1:2012
DoP No.: ISOMAT AK-RAPID GREY/1046-02
NB: 2032

Improved, fast setting, cementitious adhesive with reduced slip, for internal and external tiling.

Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength, as:	
- Early tensile adhesion strength	≥ 0.5 N/mm^2
- 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

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 09.01.2026

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ISOMAT AK-RAPID WHITE

CE

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

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EN 12004:2007+A1:2012
DoP No.: ISOMAT AK-RAPID WHITE/1048-02
NB: 2032

Improved, fast setting, cementitious adhesive with reduced slip, for internal and external tiling.

Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength, as:	
- Early tensile adhesion strength	≥ 0.5 N/mm^2
- 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, MORTARS & PAINTS
HEADQUARTERS – THESSALONIKI, GREECE
17th km Thessaloniki – Ag. Athanasios Road
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece
T +30 2310 576000
www.isomat.eu e-mail: support@isomat.eu

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