Technical Datasheet

ISOMAT AK-MEGARAPID

Two-component, fast-setting, ultra-flexible tile adhesive

Description

ISOMAT AK-MEGARAPID is a two-component, fast-setting tile adhesive consisting of a cementitious powder (component A) and a resin emulsion (component B). It provides high initial and final adhesive strength, exceptional flexibility and moisture resistance. It has increased open time for the application. 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 a C2 FE S2 adhesive. CE marked.

Fields of application

ISOMAT AK-MEGARAPID is suitable for fixing absorbent and non-absorbent tiles (e.g. “gres porcelanato”), natural stone, decorative bricks, large tiles, etc. on walls or floors. Well-suited for vibrating or dimensionally unstable substrates such as gypsum-boards, chipboards, underfloor heating systems, balconies, terraces, metal surfaces, swimming pools, etc. It is ideal for floors with heavy traffic and for areas that must be ready for use within a short time.
Suitable for indoor and outdoor applications.

Technical data

	Component A	Component B
Basis:	cementitious powder	water dispersion of acrylic polymer
Color:	white	white
Mixing ratio:	2.5 parts by weight	0.8 part by weight

Combined product

Application temperature:	from +5°C to +35°C
Application thickness:	up to 10 mm
Pot life:	at least 2.5 h
Open time:	at least 30 min
Minor adjustments open time:	at least 20 min
Wall grouting:	after 2-3 h
Floor grouting:	after 3-4 h
Walkability:	3-4 h
Adhesion strength after:	
• 28 days:	≥ 3.00 N/mm^2
• heating in +70ºC:	≥ 3.00 N/mm^2
• immersion in water:	≥ 1.50 N/mm^2
• 25 freeze-thaw cycles:	≥ 1.70 N/mm^2
Adhesive strength after:	
• 6 hours:	≥ 0.75 N/mm^2
Temperature resistance:	from -30°C to +90°C
Deformation ability according to EN 12002:	> 5.00 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 the substrate before application is recommended.

2. Application
The content of the 25 kg bag (component A) is added into the 8 kg of liquid (component B) under continuous stirring, until a homogenous paste is formed. A low-speed mixer is recommended for mixing.
The mixture should be left for about 3 min to settle and then stirred slightly again.
The tile adhesive should be spread uniformly and “combed” on the substrate using a notched trowel. The tiles should be then firmly fixed to the desired position.
The spread mixture should be covered with tiles within 30 min to avoid skin formation, i.e. before the adhesive film starts setting.

Consumption

1,5-4,0 kg/m^2, depending on the trowel notch size and the nature of the substrate.

ISOMAT AK-MEGARAPID

Packaging

Combined 33 kg packaging (25 kg cement-based powder mortar bag + 8 kg emulsion resin plastic container).

Storage

Component A:
12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

Component B:
12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sunlight and frost.

Remarks

- Component A of ISOMAT AK-MEGARAPID 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.
- If ISOMAT AK-MEGARAPID is to be used for the adhesion of non-absorbent tiles on non-absorbent substrates, the setting time of the adhesive might be prolonged.
- Consult usage risks and safety advice written on the packaging.

Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type WB, is 30 g/l (2010) for the ready-to-use product.
The ready-to-use product ISOMAT AK-MEGARAPID contains a maximum of 30 g/l VOC.

CE

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NB: 2032

Improved, fast setting, highly 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:	
- 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

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