

# ISOMAT AK-MEGARAPID

## Two-component, fast-setting, elastic tile adhesive

### Description

ISOMAT AK-MEGARAPID is a two-component, fast-setting tile adhesive. It consists of a cement-based powder mortar (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.

It is classified as type C2 FE S2 adhesive according to EN 12004.

### Fields of application

ISOMAT AK-MEGARAPID is suitable for fixing absorptive and non-absorptive tiles (e.g. "gres porcelanato"), natural stone, decorative bricks, large tiles etc, on wall or floor. Especially appropriate for vibrative or dimensionally unstable substrates such as gypsum-boards, chip-boards, 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 short time.

Suitable for indoor and outdoor applications.

### Technical data

	<u>Component A</u>	<u>Component B</u>
Basis:	cementitious powder	water dispersion of acrylic polymer
Color:	white	white
Mixing proportion:	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
Pointing on wall:	after 2-3 h
Pointing on floor:	after 3-4 h
Walkability:	3-4 h

Adhesive strength after:

- 28 days:  $\geq 3.00 \text{ N/mm}^2$
- heating in +70°C:  $\geq 3.00 \text{ N/mm}^2$
- immersion in water:  $\geq 1.50 \text{ N/mm}^2$
- 25 freeze-thaw cycles:  $\geq 1.70 \text{ N/mm}^2$

Adhesive strength after:

- 6 hours:  $\geq 0.75 \text{ N/mm}^2$
- Temperature resistance: from -30°C to +90°C

Deformation ability

according to EN 12002:  $> 5.00 \text{ mm}$

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

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 revolution mixer is recommended for mixing.

The mixture should be left about 3 min 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 applied uniformly on the whole surface. The tiles should be then fixed by pressing them in the desired position.

The spread mixture should be covered with tiles within 30 min in order to avoid skin formation, i.e. before the adhesive film starts setting.

### Consumption

1,5-4,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate.

### Packaging

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

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## 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 sun exposure and frost.

## Remarks

- The A-component 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.
- In case ISOMAT AK-MEGARAPID is used for the adhesion of non-absorptive tiles on non-absorptive substrates, the setting time of the adhesive might be prolonged.
- Consult usage risks and safety advice written on the bag.

## 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.



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### EN 12004:2007+A1:2012

DoP No.: ISOMAT AK-MEGARAPID/1037-01  
NB: 2032

Improved, fast setting, highly deformable cementitious adhesive with extended open time, for internal and external tiling.

<b>Reaction to fire</b>	Class E
<b>Release of dangerous substances</b>	See MSDS
<b>Bond strength, as:</b>	
- Early tensile adhesion strength	≥ 0.5 N/mm <sup>2</sup>
- initial tensile adhesion strength	≥ 1 N/mm <sup>2</sup>
<b>Durability, for</b>	
- tensile adhesion strength after heat ageing	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after water immersion	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm <sup>2</sup>

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