

## High performance, two-component elastic tile adhesive

### Description

ISOMAT AK-ELASTIC is a 2-component elastic 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 elasticity and moisture resistance. It possesses increased open time for application.

It is classified as type C2 E S2 adhesive according to EN 12004 and EN 12002.

### Fields of application

ISOMAT AK-ELASTIC is suitable for fixing ceramic or natural stone tiles on walls or floors, on vibrative or dimensionally unstable substrates like gypsum board, chipboard, floors with in-floor heating, terraces, balconies, swimming pools, etc. It is also suitable for fixing large tiles as well as new tiles on old tile layers.

Suitable for indoor or outdoor use.

Combined with the 2-component brushable sealing slurries AQUAMAT-FLEX and AQUAMAT-ELASTIC, it provides a perfect system for sealing and fixing.

### 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 | 1 part by weight                    |

### Combined product

Application temperature: from +5°C to +35°C

Application thickness: up to 10 mm

Pot life: at least 8 h

Open time: at least 30 min

Minor adjustments open time: at least 30 min

Pointing on walls: after 6-12 h

Pointing on floors: after 24-48 h

Adhesive strength after:

• 28 days:  $\geq 2,00 \text{ N/mm}^2$

• heating in +70°C:  $\geq 2,00 \text{ N/mm}^2$

• immersion in water:  $\geq 1,50 \text{ N/mm}^2$

• 25 freeze-thaw cycles:  $\geq 1,50 \text{ N/mm}^2$

Temperature resistance: from -30°C to +90°C

Deformation ability

according to EN 12002: > 5 mm

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

The content of the 25 kg bag (component A) is added into the 10 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 10 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.

# ISOMAT AK-ELASTIC



## 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 35 kg package (25 kg cement-based powder mortar bag + 10 kg emulsion resin plastic container).
- Combined 7 kg package (5 kg cement-based powder mortar bag + 2 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 sun exposure and frost.

## Remarks

- The A-component of ISOMAT AK-ELASTIC 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-ELASTIC 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.



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**EN 12004:2007+A1:2012**  
**DoP No.: ISOMAT AK-ELASTIC/1036-01**  
**NB: 2032**

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

|  |                       |
|--|-----------------------|
| <b>Reaction to fire</b>                              | Class A1              |
| <b>Release of dangerous substances</b>               | See MSDS              |
| <b>Bond strength, as:</b>                            |                       |
| - 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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BUILDING CHEMICALS AND MORTARS

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