

## 2-component epoxy adhesive

### Description

ISOMAT AK-EPOXY NORMAL is a 2-component solvent-free epoxy adhesive. It has high compressive, flexural and shear adhesion bond strength. It is resistant to several acids, alkalis, corrosive agents for concrete, cleaning agents, sea water and salted water. It is easy to use due to the simple mixing proportion of the two components (A:B = 1:1 by volume). It is classified as type R2T adhesive, according to EN 12004.

### Fields of application

ISOMAT AK-EPOXY NORMAL is suitable for fixing marbles, granites and most of the building materials to several substrates (concrete, wood, metal etc.), on walls or floors. Ideal for applications where high adhesion is required. Suitable for indoor or outdoor use.

### Technical data

Basis:	2-component epoxy resin
Color:	light yellow
Mixing proportion:	1:1 by volume
Compressive strength:	70 N/mm <sup>2</sup>
Flexural strength:	18 N/mm <sup>2</sup>
Initial shear adhesion strength (7 days) :	> 11,6 N/mm <sup>2</sup>
Shear adhesion strength after water immersion:	> 3,3 N/mm <sup>2</sup>
Shear adhesion strength after thermal shock:	> 2,4 N/mm <sup>2</sup>
Slip:	≤ 0,5 mm
Minimum hardening temperature:	+8°C
Pot life:	40 min at +25°C

Minimum cure time:	6 h at +25°C
Full cure time:	4 days at +25°C

Cleaning of tools:  
Tools should be cleaned with SM-12 solvent immediately after use.

### Directions for use

#### 1. Substrate

The substrate should be dry, clean, statically sufficient, slightly rough and free of materials that prevent bonding such as dust, loose particles, oil residues etc.

#### 2. Mixing of the components

Components A (resin) and B (hardener) are packed in two separate containers, in a predetermined mixing proportion. Equal quantities by volume from comp. A and comp. B are placed into a clean container and mixed for about 5 minutes by using an appropriate hand tool (e.g. small trowel), until a uniform pasty putty is formed.

#### 3. Application

Before the application it is recommended to roughen the surface of marble or granite by using a cut-off wheel machine. ISOMAT AK-EPOXY NORMAL is applied by trowel on the roughened surface and then the marble or granite is fixed by pressing on the desired position.

### Consumption

The consumption depends on the dimensions and weight of the bonded material. On vertical surfaces if the marble/granite will not be fastened mechanically, the adhesive should be applied at least on 10% of the surface.

# ISOMAT AK-EPOXY NORMAL



## Packaging

ISOMAT AK-EPOXY NORMAL is supplied in packages (A+B) of 20 lit, 4 lit and 1 lit, with components A and B having fixed pre-determined volume proportions.

## Shelf-life - Storage

24 months from date of production if stored in original sealed packaging, in areas protected from humidity and direct sun exposure. Recommended storage temperature between +5°C and +35°C.



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### EN 12004

Improved reaction resin adhesive  
with reduced slip

- Reaction to fire	Class F
- Initial shear adhesion strength	≥ 2 N/mm <sup>2</sup>
- Shear adhesion strength after thermal shock	≥ 2 N/mm <sup>2</sup>
- Shear adhesion strength after water immersion	≥ 2 N/mm <sup>2</sup>

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BUILDING CHEMICALS AND MORTARS

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