Technical Datasheet

ISOMAT AK-EPOXY FAST

Two-component, fast-setting epoxy adhesive

Description

ISOMAT AK-EPOXY FAST is a two-component, fast-setting, solvent-free epoxy adhesive. It shows 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 thanks to the simple mixing ratio of the two components (A:B = 1:1 by volume). It is classified as an R2T adhesive according to EN 12004.

Fields of application

ISOMAT AK-EPOXY FAST is suitable for fixing marble, granite and most building materials to a variety of substrates (concrete, wood, metal, etc.), on walls and floors. Ideal for fixing on vertical surfaces thanks to its fast setting (7 minutes). Suitable for indoor or outdoor use.

Technical data

Basis:	two-component epoxy resin
Color:	grey-green
Mixing ratio:	1:1 by volume
Compressive strength:	60 N/mm^2
Flexural strength:	15 N/mm^2
Initial shear adhesion strength (7 days):	> 10.6 N/mm^2
Shear adhesion strength after water immersion:	> 5.7 N/mm^2
Shear adhesion strength after thermal shock:	> 7.9 N/mm^2
Slip:	≤ 0.5 mm
Minimum hardening temperature:	+5^{0}C
Pot life:	3 min at +25^{o}C
Minimum cure time:	1 h at +25^{o}C
Full cure time:	24 h at +25^{o}C

Cleaning of tools:
Tools should be cleaned with SM-27 solvent immediately after use.

Directions for use

1. Substrate preparation
The substrate should be dry, clean, stable, slightly rough and free of materials that hinder bonding, such as dust, loose particles, oil or grease, etc.

2. Mixing of the components
Components A (resin) and B (hardener) are packaged in two separate containers, at a predetermined mixing ratio. Equal quantities by volume of comp. A and comp. B are placed into a clean container and mixed for about 2-3 minutes with an appropriate hand tool (e.g. small trowel), until a uniform, pasty, putty-like consistency is formed.

3. Application
Before the application, it is recommended to roughen the surface of marble or granite with a cut-off wheel machine. ISOMAT AK-EPOXY FAST is applied with a trowel to the roughened surface and then the marble or granite is pressed to the desired position.

Consumption

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

Packaging

ISOMAT AK-EPOXY FAST is supplied in containers (A+B) of 1 l, with components A and B at a fixed pre-determined volume ratio.

Shelf life – Storage

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

ISOMAT AK-EPOXY FAST

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EN 12004:2007+A1:2012

DoP No.: ISOMAT AK-EPOXY FAST/1089-01

NB: 0754

Improved, reaction resin adhesive, with reduced slip, for internal and external tiling.

Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength, as:	
- initial shear adhesion strength	≥ 2 N/mm^2
Durability, of	
- shear adhesion strength after thermal shock	≥ 2 N/mm^2
shear adhesion strength after water immersion	≥ 2 N/mm^2

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