Technical Datasheet

ISOMAT AK-EPOXY NORMAL

Two-component epoxy adhesive

Description

ISOMAT AK-EPOXY NORMAL is a two-component, solvent-free epoxy adhesive. It shows high compressive, flexural and shear adhesion. 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).
Certified according to EN 12004 and classified as type R2T adhesive. CE marked.

Fields of application

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

Technical data

Basis:	two-component epoxy resin
Color:	light yellow
Mixing ratio:	1:1 by volume
Compressive strength:	70 N/mm^2
Flexural strength:	18 N/mm^2
Initial shear adhesion strength (7 days):	> 11.6 N/mm^2
Shear adhesion strength after water immersion:	> 3.3 N/mm^2
Shear adhesion strength after thermal shock:	> 2.4 N/mm^2
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-27 solvent immediately after use.

Directions for use

1. Substrate preparation
The substrate should be dry, clean, statically sufficient, slightly rough and free of materials that prevent bonding such as dust, loose particles, oil residue, 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 5 minutes with 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 with a cut-off wheel machine. ISOMAT AK-EPOXY NORMAL is applied by trowel on the roughened surface and then the marble or granite is firmly pressed to the desired position.

Consumption

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 NORMAL is supplied in packages (A+B) of 1 l, 4 l and 20 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 humidity and direct sunlight.
Recommended storage temperature between +5°C and +35°C.

ISOMAT AK-EPOXY NORMAL

CE

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EN 12004:2007+A1:2012
DoP No.: ISOMAT AK-EPOXY NORMAL/1088-01
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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