Technical Datasheet

EPOMAX-STUCCO

Two-component, extra fine-graded epoxy putty

Description

EPOMAX-STUCCO is a two-component epoxy system without solvents, offering very strong bonding to the substrate, high hardness and high mechanical strength. It is significantly resistant to acids, alkalis, detergents, sea water and temperature variations.
Certified according to EN 1504-4 and classified as a structural bonding agent. Certificate No.: 2032-CPR-10.11.

Fields of application

EPOMAX-STUCCO is ideal for puttying surfaces. It is also used for bonding of concrete, steel, stone, wood, etc., for restoring damages on concrete and screeds, as well as for sealing cracks that will be repaired with EPOMAX-L10, EPOMAX-L20 or DUREBOND epoxy injection resins.

Technical data

Basis:	two-component epoxy resin
A-component color:	white
B-component color:	grey
A+B color:	grey
Form:	paste
A-component density:	1.53 ± 0.07 kg/l
B-component density:	1.50 ± 0.20 kg/l
A+B density:	1.52 ± 0.14 kg/l
Mixing ratio (A+B):	100:100 by weight
Pot life:	approx. 60 min at +20°C
Minimum hardening temperature:	+8°C
Walkability:	after 16 hours at +23°C
Final strength:	after 7 days at +23°C
Adhesion for hardened concrete to hardened concrete and for fresh concrete to hardened concrete: (EN 12636)	Pass (concrete failure)
Shear adhesion strength for hardened concrete to hardened concrete: (EN 12615)	7.8 N/mm^2
Compressive strength: (EN 12190)	50.0 N/mm^2
Shrinkage: (EN 12671-1)	0.05%
Workability: (EN ISO 9514)	60 minutes at +20°C
Sensitivity to water: (EN 12636)	Pass
Modulus of elasticity in compression: (EN 13412)	5,150 N/mm^2
Coefficient of thermal expansion: (EN 1770)	61 X 10^{-6}
Glass transition temperature: (EN 12614)	≥ 74°C
Reaction to fire: (EN 13501-1)	Euroclass E
Durability: (EN 13733)	Pass*

**The compressive shear load at failure after exposure to thermal cycling shall not be less than the lowest tensile strength of the bonded or the original concrete.*

Compressive strength: (DIN EN 196-1)	58.6 N/mm^2
Flexural strength: (DIN EN 196-1)	30.0 N/mm^2

Cleaning of tools:
Tools should be cleaned with SM-25 solvent, immediately after use.

Directions for use

1. Substrate preparation
The application surface should be:

- Dry and durable.
- Free of materials that might impair bonding, e.g. dust, grease, loose particles, etc.

EPOMAX-STUCCO

2. Mixing of the components
Components A (resin) and B (hardener) are packaged in two separate containers, at a fixed mixing ratio. They are placed into a clean container and mixed for about 5 minutes with an appropriate hand tool (e.g. a small trowel), until a uniform pasty putty is formed.
In case less quantity is required (than the one available in the container), equal quantities by volume of comp. A and comp. B are thoroughly mixed in a clean container, as described above.

3. Application – Consumption
EPOMAX-STUCCO is applied by trowel or spatula on a dry and clean surface.
Consumption: Approx.1.35 kg/m^2/mm of layer thickness.

Packaging

EPOMAX-STUCCO is supplied in containers (A+B) of 1 kg, with components A and B having a fixed ratio by weight.

Shelf life – Storage

12 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.

Remarks

- The workability of epoxy materials is affected by temperature. The ideal temperature of application is between +15°C and +25°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will extend the curing time, while temperatures above +30°C will reduce it. It is recommended to mildly preheat the product in the winter, and store the product in a cool room before application in the summer.
- After hardening, EPOMAX-STUCCO is totally safe for health.
- Please consult the safety instructions written on the packaging before use.
- EPOMAX-STUCCO is intended for professional use only.

Volatile Organic Compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type SB is 350 g/l (2010) for the ready-to-use product.
The ready-to-use product EPOMAX-STUCCO contains a maximum of 350 g/l VOC.

EPOMAX-STUCCO

CE

2032

ISOMAT S.A..
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

10

2032-CPR-10.11

EN 1504-4

DoP No:EPOMAX-STUCCO/1264-01

Structural bonding product for bonded mortar or concrete for uses other than low performance requirements

Adhesion: Fracture to concrete

Shear Strength: ≥ 6.0 N/mm^2

Compressive strength: ≥ 30.0 N/mm^2

Shrinkage expansion: ≤ 0.1%

Workability: 60 minutes at +20 °C

Sensitivity to water: pass

Modulus of elasticity: ≥ 2,000 N/mm^2

Coefficient of thermal expansion: ≤ 100 X 10^{-6} per K

Glass transition temperature: ≥ 40 °C

Reaction to fire: Euroclass E

Durability: Pass

Dangerous substances: comply with 5.4

ISOMAT S.A.
BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 722 475
www.isomat.eu e-mail: support@isomat.eu