



SEMPOXY GROUT 3K

3 COMPONENT EPOXY BASED GROUT MORTAR

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TECHNICAL SAFETY DATA SHEET (TDS)

DATE 10.06.2023

REV. DATE :01.01.2025

REV:02

1 DESCRIPTION

3 component, epoxy resin based, solvent-free, specially developed casting mortar containing quartz aggregate with special gradation. It is a self-leveling, flowable epoxy mortar that can be applied on concrete, stone, mortar, steel, aluminum, asbestos cement, polyester, wood and epoxy based materials.

2 ADVANTAGES

- Fast application thanks to its self-leveling feature.
- Does not shrink, shows high fluidity.
- Resistant to oils and acids.
- Non-toxic.
- Waterproof.
- Resistant to freezing and thawing.
- Resistant to various chemicals.
- Resistant to freezing and thawing.
- Resistant to vibration.
- Does not require primer.

3 USES

- Bridge carrier plates and metal columns.
- Crane rail lines.
- Machine foundations on concrete.
- Binding bolts.
- Anchoring prefabricated structures.
- Fixing steel columns and poles,
- Inflexible joints.
- Bonding materials such as concrete, wood, metal.
- Repairing aircraft and helicopter runways
- Planting iron shoots in concrete.
- Repairing cracks in precast, reinforced concrete.
- Ground repair and leveling works.

4 PACKAGING

A/B/C: 2/1/12 kg= 15 kg set

5 TECHNICAL SPECIFICATIONS

QUALIFICATIONS	FEATURES	METHODS
Color	A comp: Yellowish, liquid B comp., Light yellow, liquid Mixture: Grey, fluid liquid	-
Density	2,10±0,10 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811
Surface Temperature	(+5°C) -(+30°C)	-
Mixture Ratio (By weight)	2 unit A, 1 unit B, 12 unit C	-
Mixture Pot Life	30 minutes	-
Solid content	%100	-
Adherence to Concrete	≥ 4 N/mm ²	EN 1542
Compressive Strength	≥ 3 N/mm ²	EN 1542
Flexural Strength	≥75 N/mm ²	TS EN 196
Tensile Strength	≥ 30 N/ mm ²	TS EN 196
Full Curing Time	30 Mpa	TS EN 196
Color	7 Days	-

* Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

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6 CONSUMPTION

For 1mm thickness 2,0 kg / m²· Application thickness should be max. 5 mm in each layer. The application time between layers should be 4-5 hours.

7 APPLICATION PROCEDURE

Surface Preparations

The application surface should be cleaned, roughened if necessary and removed from the oil, rust, paint and dust. The concrete must be minimum 28 days old and the concrete surface must be dry/slightly damp. Steel surfaces should be blasted with sand or cleaned with a brush until shiny metal is removed. Rust on the reinforcement should be cleaned and new reinforcement should be added if necessary.

Machine basements: Before placing the machine, the concrete should be cleaned, the surface to be grouted should be roughened, bolts and base plate should be clean. Air evacuation holes must be pre-drilled in the base plate. After the machine is placed and leveled, its position should not be changed and the adjustment wedges should be lightly lubricated to prevent the mortar from sticking.

Preparation of molds: The molds should be solid and free of gaps, and a 5 cm casting gap should be left between the edge of the base plate and the mold on the side where the grout mortar will be poured. Polyethylene can be used to prevent the product from sticking to the mold walls.

Preparation of the Mixture:

Mix components A and B with a low speed mixer until a homogeneous mixture is obtained

Application:

SEMPOXY GROUT 3K is applied by pouring into the mold cavities or on the surface immediately after mixing. (4-50 mm) In repair applications; mortar is poured onto the surface and placed well with the help of a toothed trowel. Hot, dry and windy environments should be protected from external influences for 48 hours. In grout applications; mortar should be poured only from one side of the mold and without interruption, and the material should be placed well by using a hooked steel wire. Molds should not be taken before 24 hours, setting wedges should not be taken before 2 days, bolts should be checked after the machine is put into operation. Hot, dry and windy environments should be protected from external influences for 48 hours.

8 STORAGE AND SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 oC. Once a pail has been opened, use as soon as possible.

8 PRECAUTIONS

Flammable and explosion products should be kept away during the application. Protective gloves and masks should be used for hands and eyes during application. The product should be used in well ventilated environments. If the material comes into contact with eyes, it should be washed immediately with sufficient water. Children should be kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

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NOT

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