

MFC Ekopox 670

Low-Viscosity Cast Material

PRODUCT DESCRIPTION

MFC Ekopox 670 is a two-component low-viscosity material, without solvents, consisting of component A, modified epoxy resin containing additives, pigments, and fillers, and component B, polyamine hardener.

USE

MFC Ekopox 670 is designed especially for repair of gaps and cracks in concrete and self-levelling materials. It can be used for casting of steel clamps, for repair of loose surfaces and injection of hollow places. Upon mixing with the MFC silica sand, it creates a resin mortar suitable for repair of local scabbing, filling of openings and gaps, etc.

PRODUCT PROPERTIES

Mixing ratio of the composition

MFC Ekopox 670	Component A	Component B
Weight parts	100	15

Technical parameters of components

Flow time – component A (cup 6/23 °C)	50 – 150 s
Gelatinising time – component A (23 °C)	Max. 5 hrs.
Viscosity (Brookfield) – component B	Max. 0.5 Pa.s

Technical parameters of the hardened material

Adhesion to background	Min. 2.5 MPa
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BACKGROUND PREPARATION

The surface must be dry, stabilised, rid of loose particles and grease (blasting, grinding, milling) with subsequent dust extraction. With very smooth surfaces, it is suitable to perform an adhesion test.

MIXING

Before the actual processing, component A is mixed in the entire contents so that the filler is well dispersed from the bottom. Then add the corresponding amount of the hardener (component B) while constantly mixing. Mixing of reactive components takes about 2 – 3 minutes. By subsequent adding MFC thickener as the 3rd component, prepare a thickly flowing material suitable for casting of wider gaps.

APPLICATION

The mixed mixture should be processed within 15 – 20 minutes after mixing all components.

Improvement of cracks and gaps: cut cracks (gaps) along the entire length up to a depth of about 1/3 of the background thickness, however at least 2 – 3 cm. Perpendicularly to the crack (gap), cut grooves for steel clamps spaced about 20 – 30 cm. Properly clean the cut (best by extracting) and insert steel clamps. Subsequently, perform casting of steel clamps together with the crack (gap), namely along the entire cut length. Finally, perform strewing of the surface with the excess of fine MFC silica sand.

Repair of local scabbing and filling of openings: by adding fine MFC silica sand (recommended filling of 1 part of MFC Ekopox 670 + 3 parts of filler), create a resin mortar that you can apply using a steel squeegee on the background and smoothen. The material does not flow, fills the recesses well, and perfectly holds the plane and the edge. In order to ensure consistency of further layers, perform strewing of the surface with the excess of fine MFC silica sand.

The optimum temperature for performance is 20 °C, the background temperature should not drop below 10 °C, the ambient and material temperature then in the range of +15 to +25 °C. Upon adhering to the aforementioned conditions, it is possible to apply further layers after 24 hours.

CLEANING

Properly wash all used tools with ethyl alcohol.

PACKAGING

MFC Ekopox 670 is supplied in 10 litre buckets. The weight of the fill allows for mixing with the prescribed amount of hardened.

STORAGE

Store in closed packaging, in covered dry warehouses at a temperature of +5 °C to +25 °C, separately from the hardeners.

WARRANTY PERIOD

The warranty period is 6 months from the date of production. The production date is marked on the packaging. The producer guarantees the declared properties and parameters of the product when adhering to the prescribed technological procedures, however the producer does not provide any further guarantees concerning its inappropriate processing and use.

WARNING

Detailed data concerning safe handling and health protection are stated in the product safety data sheet.

