

MAPEPOXY UV-S

Epoxy based putty for use under water



AREA OF USE

Mapepoxy UV-S is used for sealing cracks, casting joints and minor defects. Sealing of form-work, repair-work on quay pillars, dams, offshore structures, etc.

Mapepoxy UV-S sticks well to vertical surfaces.

TECHNICAL CHARACTERISTICS

Mapepoxy UV-S is a solvent free epoxy thixotropic putty for patching concrete structures under water.

Mapepoxy UV-S meets the requirement defined by EN 1504-9 "Products and Systems for the protection and repair of concrete structures: Definitions, requirements, quality control and evaluation of conformity. General principles for the use of products and systems", and the minimum requirements described in EN 1504-3. "Structural and non-structural repair" Class R1.

APPLICATION PROCEDURE

Mapepoxy UV-S must not be used at underwater temperatures below +5°C. If possible, the temperature should be above +13°C. Complete setting will take several weeks even at +15°C and is never attained at lower temperatures. As a rule, one days setting is enough to prevent the mass being eroded. Workability time, is approx. 1 hour at +20°C. At lower temperatures workability time is extended. In need of adjusted setting time, please contact Mapei AS Technical Assistance.

Preparation

All the area that shall be repaired must be sound and free of all loose particals and parts that will reduce adhesion.

Mixing

The components should have a temperature of +15°C to +25°C before mixing. Equal parts by weight of component A and component B should be mixed well for 3 - 4 minutes, until the mass has an even grey colour without any white (light-coloured) or black (dark-coloured) areas. Small batches may be mixed with a steel filler knife, whereas slightly larger batches should be mixed with a slow drill with mixing head.

Application

A variety of application methods may be used:

- The stopper is rolled into balls, which are sent down to the diver. The diver then even out (kneads) the mass with his hands. An extra 3 mm of **Mapepoxy UV-S** should be applied, as the outermost layer will be subject to erosion.
- Spread the putty in the required thickness (10 - 20 mm) on pieces of plastic foil. The diver receives these under water and presses them onto the area to be patched. Pressure should first be applied to the centre of the piece of foil, and then out to the sides, in order to avoid creating water-pockets. The diver must work with the foil patch until it sticks well over the entire surface to be treated. The plastic foil must be left in place.
- In the case of stopping cracks and joins, a reat deal of time and material can be saved by using a pressure gun. Take special notice to use **Mapepoxy UV-S** within its workability (depends on temperature).

CLEANING

Tools and equipment must be washed immediately after use with **Spesialtytinner**, ethanol or other cleaning agent suited for epoxy. Once hardened the product can only be removed mechanically.

PACKAGING

4 kg set:

Component A = 2 kg, component B = 2 kg

STORAGE

Properties for use are not changed for a period of 24 months when stored between +5 and +30 °C in unopened original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

Mapepoxy UV-S: Epoxy based putty for use under water.

PRODUCT DETAILS	Component A	Component B
Color:	black	black
Appearance:	thixotropic	thixotropic

APPLICATION DATA	
Mixing ratio:	1:1 (comp A : comp B)
Color of mixture:	light grey
Consistency of the mixture:	thixotropic pasta
Density of the mixture (g/cm ³):	1.7
Application temperature range:	+5°C - +30°C
Workability:	approx. 1 hour

FINAL PROPERTIES (7 days at +23°C and 50 % R.H)			
Performance characteristics for product	Test methods	Requirements according to EN 1504-3	Product performance
Compressive strength (MPa):	EN 11290	>10	approx. 85
Flexural strength (MPa):	EN 196-1	none	>5 (after 28 days)
Adhesive bond:	EN 1542		approx. 3.9
Capillary absorption (kg/m ² ·h ^{0.5}) (MPa):	EN1062-3	W < 0.1	NPD
Reaction to fire:	Euroclass	declared value	NPD

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

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