



50 UV-T

Under-water repair mortar



PRODUCT DESCRIPTION

50 UV-T is a cement based mortar with fine aggregate specially designed for underwater application. The mortar is added anti-washout-agent which reduces the risk of washout of applied mortar. The mortar can handle some free-fall into water without increasing the risk of washouts and reduction of the products firmness, but the best result is achieved if the free-fall is kept to a minimum.

50 UV-T is a cement based mortar with D_{max} of 0.2 mm.

50 UV-T is well suited for grouting and filling damaged areas under water or in areas where normal mortar would wash out.

TECHNICAL PROPERTIES

50 UV-T is very cohesive and will seem to have a high viscosity in the mixer, but will have very good flow-properties

50 UV-T meets the requirements defined by EN 1504-9 (*«products and systems for protection and repair of concrete structures – Definitions and requirements, quality control and evaluation of conformity. General principles for the use of products and systems»*). And the minimum requirements claimed by 1504-6 (*“Anchoring of reinforcement steelbar”*).

INSTRUCTIONS FOR USE

Preparation

The substrate should be cleaned and all mud, grease, fat, loose particles and other elements that might reduce adhesion should be removed. If a formwork is being used make sure it does not have any leaks and

are dimensioned for the pressure of the total height of fresh mortar.

Mixing

50 UV-T should only be added water, approx. 12 liters per 25 kg bag, and be mixed for a minimum of 3 minutes. What equipment is best suited for mixing depends on the volume of mortar that is to be used. Adding more water than the recommended 12 liters may increase the risk of the mortar separating.

Application

50 UV-T is preferably applied with a pump, but in smaller jobs it may be possible to apply the mortar with a pipe/funnel. If using a pump to apply mortar under water it is recommended to submerge the tubing.

CLEANING

Fresh mortar can be removed from tools and equipment with water. Hardened mortar can only be removed mechanically.

CONSUMPTION

Approx. 1,6 kg per litre.

PACKAGING

50 UV-T is supplied in 25 kg bags.

STORAGE

50 UV-T can be stored up to 12 months from production date in unopened, original packaging in dry conditions. Opened bags should be used immediately.

50 UV-T complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

TECHNICAL DATA (typical values)			
PRODUCT IDENTIFICATION			
Type:	CC		
Appearance:	powder		
Colour:	grey		
Maximum aggregate size (mm):	0.2		
Dry solid content (%):	100		
PRODUCT APPLICATION DATA (at + 20 °C -50 % RH)			
Colour of mixture:	grey		
Mixing ratio:	approx. 12 litres of water per 25 kg bag		
Density (kg/m ³):	1800		
Chloride ions content - minimum requirements < 0,05 % - according to EN 1015-17 (%):	< 0.005		
Application temperature range:	from +5°C to +35°C		
Pot life of mixture:	approx. 1 hour		
FINAL PERFORMANCE (48 % blending water):			
Performance characteristics	Test method	Minimum requirements requirements according to EN 1504-6	Product performance
Compressive strength (MPa):	EN 12190	80% of declared value	> 18 (after 1 day) > 30 (after 7 days) > 40 (after 28 days)
Flexural strength (MPa):	EN 196-1	none	> 3 (after 1 day) > 4 (after 7 days) > 5 (after 28 days)
Pull-out (mm)	EN 1881	displacement ≤ 0.6 mm at load of 75 KN	0.014
Reaction to fire:	Euroclass	Value declared by manufacturer	A1

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.

NOTE

The technical recommendations and details in this product description represent our current knowledge and experience of the products. All the above information should be treated as a guide and full consideration should be given. The user is responsible for ensuring that the product is suitable for the use intended. The manufacturer cannot be held liable for use of the product for purposes for which it is not recommended or in the event of accidental use.

All deliveries from Mapei AS are subject to the sales and delivery terms, deemed to be accepted when placing an order.

Please refer to the latest updated version of the technical data sheet on our website, at 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 force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.no

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.no



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