

Mapecoat T

Two-component epoxy-acrylic paint in water dispersion for the protection of cementitious substrates



WHERE TO USE

Lining of concrete surfaces or cement-based renders inside tunnels for the protection of vertical walls.

Some application examples

Protective lining of vertical walls and vaults in road tunnels and kerbs against the aggression of chemical agents present in the atmosphere.

TECHNICAL CHARACTERISTICS

Mapecoat T is a two-component epoxy-acrylic resin-based paint in water dispersion with high resistance, prepared according to a formula developed in the MAPEI research laboratories.

Because of its composition, **Mapecoat T** resists the abrasion caused by brushing and can be cleaned with water.

Mapecoat T is solvent-free and odourless. Therefore it is suitable for linings also in closed or poorly ventilated areas.

After drying, **Mapecoat T** film gives surfaces a semi-gloss, smooth appearance and increases the brightness of artificially lit areas.

Mapecoat T can be applied on slightly damp surfaces, provided they are well cured and without shrinkage.

RECOMMENDATIONS

- Do not use **Mapecoat T** on substrates subject to rising damp.
- Do not apply **Mapecoat T** when rain is likely (the product may wash out).
- Do not dilute **Mapecoat T** with solvents.
- Do not apply **Mapecoat T** on friable or dusty substrates.
- Do not apply **Mapecoat T** at temperatures below +5°C or above +35°C.

APPLICATION PROCEDURE

Preparing the substrate

New surfaces to be treated or any patching with repair mortars must be cured, clean, compact, dry or with slight residual moisture provided it does not result from rising capillary action or counter pressure from the water table. Completely remove traces of oil, grease or form release agents on the surface, and loose parts.

Concrete superficially impregnated with oils and grease must be vigorously cleaned with a 10% water and soda solution or detergents and then rinsed thoroughly several times with clean water.

If deleterious substances have penetrated deeply

TECHNICAL DATA (typical values)		
PRODUCT IDENTIFICATION		
	Part A	Part B
Colour:	white, orange or grey	white
Consistency:	fluid paste	fluid paste
Specific gravity (g/cm³):	1.53	1.535
Viscosity at +23°C (mPa·s):	11 400 (20 rev - 6 rotor)	6000 (20 rev - 6 rotor)
Storage:	24 months in original packaging	
Hazard classification according to EC 99/45:	irritant	none
	Before use refer to the "Safety Instructions for the preparation and application" paragraph and the information on the packaging and safety data sheet	
Custom class:	3907 30 00	
APPLICATION DATA		
Mixing ratio:	1	1
Specific gravity A + B (g/cm³):	1.530	
Viscosity Brookfield A + B (mPa·s):	6500 (20 rev - 5 rotor)	
Colour A + B:	white, orange, grey	
Average consumption (g/cm²):	350-450	
Average thickness per 400 g consumption:	approx. 140 µm	
Open time at +23°C:	approx. 3 hours	
Touch dry at +23°C:	1-3 hours	
Waiting time between coats:	6-24 hours, as a function of the temperature and moisture	
FINAL PERFORMANCE DATA		
Ready for use:	7-10 days	
Moisture abrasion after 4 days:	> 10 000 cycles	
Colour changes after 200 hours exposition WOM:	ΔE < 1	

into the substrate, the contaminated concrete must be removed by scarifying.

The substrate should then be repaired with special mortars belonging to the **Mapecrout** line or with **Planitop 400**.

Renders can be levelled with **Nivoplan** mixed with **Planicrete** or with **Planitop 100**, if the thicknesses involved can be measured in millimetres.

When levelling or repairs are not necessary, **Mapecoat T** can be applied directly onto clean and solid cementitious surfaces, even if slightly damp.

In normal conditions **Mapecoat T** does not require the use of a primer.

Preparing the product

Carefully mix the two components (1:1 by weight). Pour Part B (hardener) into Part A (resin), taking care to scrape the sides of the containers with a brush so as to mix all of the product. Mix **Mapecoat T** with a drill at low speed, to prevent entraining air (always keep the propeller immersed while mixing).

Mix for several minutes, until the product is completely homogenised. Avoid removing partial quantities of material from the containers, so as not to risk accidentally mistaking the dosage which could compromise the final hardening.

Applying the product

Mapecoat T can be applied by brush, roller or airless spray. If the substrate is very absorbent, the first coat of **Mapecoat T** may be diluted 5 to 10% with clean water.

Mapecoat T should be applied in at least two coats at a distance of 6 to 24 hours, depending on the environmental temperature and humidity.

High temperatures and low humidity reduce the waiting time, while low temperatures and high humidity increase it. Protect the fresh product from rain for at least 12 hours.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Mapecoat T is water-based, but the epoxy resin contents could cause allergies to those predisposed. It is recommended to use protective goggles and gloves during handling and application. In case of contact with eyes, wash thoroughly with plenty of water and consult a doctor.

Cleaning

Brushes, rollers and airless spray guns should be cleaned thoroughly with water before **Mapecoat T** hardens.

CONSUMPTION

350-450 g/m² per coat (reference is made to the application of two coats).

PACKAGING

20 kg units (Part A 10 kg + Part B 10 kg).

STORAGE

24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C.

FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product report 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 applications: 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.

**All relevant references
of the product are available
upon request**



MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)



MAPEI S.p.A. - ITALY



MAPEI FRANCE



MAPEI INC - CANADA



RESCON MAPEI AS - NORWAY



MAPEI KFT. - HUNGARY



MAPEI FAR EAST Pte Ltd



MAPEI Sro - CZECH REP.

