



# Mapecoat W

**Two component epoxy paint in water dispersion for the protection of cement based surfaces**



## WHERE TO USE

Painting of concrete surfaces or cement-based renders inside tunnels, reservoirs, water pipes, areas in the food, chemical, and electronic industries, cafeterias, industrial kitchens and clinics.

Anti-corrosion protection of concrete kerbs, the inside of water tanks, and areas underground where the use of solvents is not recommended.

### Some application examples

- Protection of civil and industrial structures subject to weak chemical aggression caused by weak acids and alkali, hydrocarbons, etc.
- Protection of aseptic areas in the food preparation, chemical and pharmaceutical industries and hospitals.
- Protection of piers and vaulting in road tunnels and cement kerbs against de-icing salts.
- Protection of surfaces in clinics, cafeterias, kitchens, public areas.
- Protection of surfaces in badly ventilated areas where the use of solvents is not recommended.
- Protection of holding tanks for water or slightly aggressive liquids.
- Protection of industrial floors subject to light foot traffic.

## TECHNICAL CHARACTERISTICS

**Mapecoat W** is a two-component epoxy resin-based paint in water dispersion and special high-coverage pigments.

When hardened **Mapecoat W** resists the aggressive action of weak acids, hydrocarbons and oils.

**Mapecoat W** resists abrasion caused by the brushes of scrubbing machines and can be washed with high-pressure water and industrial detergents.

**Mapecoat W** is odourless and solvent-free, and is therefore recommended for use on the walls and bottoms of underground tanks, or in closed or badly ventilated rooms. The hardened **Mapecoat W** film gives surfaces a smooth, semi-gloss appearance and makes artificially lit areas brighter.

**Mapecoat W** can be applied on slightly damp surfaces provided they are sufficiently cured and without shrinkage.

## RECOMMENDATIONS

- Do not use **Mapecoat W** on substrates subject to water pressure (use **Biblock** or **Triblock** as a primer).
- Do not apply **Mapecoat W** when rain is likely (the product may wash out).
- Do not dilute **Mapecoat W** with solvents.
- Do not apply **Mapecoat W** on friable or dusty substrates.

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- Do not apply **Mapecoat W** at temperatures below +5°C or above +35°C.

## HOW TO USE

### Preparing the substrate

The surfaces to be treated must be solid and 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 loose particles, cement laitance, dust, paint, oil, form release compounds and other deleterious substances.

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

The substrate should then be repaired with special mortars from the **Mapegrout** line.

Renders can be levelled with **Nivoplan** mixed with **Planicrete** or with **Nivorapid** (only on surfaces in interiors), or with **Planitop 100**, if the thicknesses involved can be measured in millimetres.

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

In normal conditions **Mapecoat W** does not require the use of a primer unless:

- water counter pressure is a problem;
- surfaces contain loose particles.

In the first case apply a coat of **Biblock** diluted 10% with water followed by a finishing coat of **Triblock**. In the second case, simply apply a coat of **Biblock** diluted 15 to 20% with water (consult the technical data sheets or call the MAPEI Technical Service).

### Preparing the paint

Carefully mix the two components, Part A (resin) and Part B (catalyst), taking care to scrape the sides of the containers with a brush so as to mix all of the product. Mix **Mapecoat W** 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. This could cause the **Mapecoat W** to fail to harden or fail to harden completely.

## Applying the paint

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

**Mapecoat W** should be applied in at least two coats at a distance of 6 to 24 hours, depending on the ambient 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. At temperatures around +20°C **Mapecoat W** is ready for traffic after 24 hours.

## Precautions to be taken during preparation and application

Even though **Mapecoat W** is water based, using protective eyewear and gloves is recommended during handling and application. In case of contact with eyes, wash thoroughly with water and consult a doctor. In closed or badly ventilated areas, provide adequate ventilation.

For further information consult the safety data sheet.

## Cleaning

Brushes, rollers and airless spray guns should be cleaned thoroughly with water before the products hardens. Afterwards, solvents (xylol, acetone) can be used or mechanical means.

## CONSUMPTION

250-300 g/m<sup>2</sup> per coat.

## PACKAGING

10 kg units (Part A 2.5 kg + Part B 7.5 kg).

20 kg units (Part A 5 kg + Part B 15 kg).

## STORAGE

Store in a dry place, away from sources of heat and open flames, at a temperature between +5°C and +30°C.

FOR PROFESSIONALS.

## WARNING

*N.B. - 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.*

## TECHNICAL DATA (typical values)

### PRODUCT IDENTIFICATION:

	Part A	Part B
<b>Colour:</b>	transparent	white or grey
<b>Consistency:</b>	fluid	thick paste
<b>Density:</b>	1.1 kg/l	1.4 kg/l
<b>Viscosity at +23°C:</b>	700 mPa·s	3000 mPa·s
<b>Storage:</b>	12 months in original packaging	
<b>Mixing ratio:</b>	1	3
<b>Density A + B:</b>	1.3 g/cm <sup>3</sup>	
<b>Viscosity A + B, S shaft:</b>	2600 mPa·s	
<b>Health hazard classification according to EEC 88/379:</b>	irritant	irritant
<b>Custom class:</b>	3907 30 00	
<b>Colour A + B:</b>	white, Manhattan grey	
<b>Average coverage:</b>	250-300 g/m <sup>2</sup> per coat	
<b>Average thickness:</b>	100-140 µm per coat	
<b>Open time at +23°C:</b>	40-60 minutes	
<b>Dust try at +23°C:</b>	1-2 hours	
<b>Setting time of film applied at +23°C:</b>	6-10 hours	
<b>Waiting time between coats:</b>	6-24 hours	
<b>Complete hardening:</b>	8-10 days	

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