

MAPECOAT I 600 W

Two-component transparent epoxy primer in water dispersion



WHERE TO USE

Mapecoat I 600 W is specifically formulated for priming surfaces before applying Mapefloor I 500 W when used to form self-levelling, vapour-permeable epoxy coatings (Mapefloor System 53) and Mapefloor Urban System.

Typical application examples

- Primer for Mapefloor Urban System.
- Primer for Mapefloor I 500 W (Mapefloor System 53).

TECHNICAL CHARACTERISTICS

Mapecoat I 600 W is a two-component, transparent, epoxy resin-based primer according to a formula developed in the MAPEI R&D laboratories.

Once Mapecoat I 600 W has been prepared as specified and diluted according to requirements, it may be applied by roller or by airless spray in coats from 60 to 100 µm thick.

Mapecoat I 600 W may be applied directly on concrete without a vapour barrier.

RECOMMENDATIONS

- Do not dilute Mapecoat I 600 W with solvents.
- Do not apply Mapecoat I 600 W on crumbling substrates.
- Do not apply Mapecoat I 600 W on substrates with oil or grease stains or stains in general.
- Only apply Mapecoat I 600 W on substrates prepared as specified.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not expose the mixed product to sources of heat.
- Protect the product from water for at least 24 hours after application.
- The temperature of the substrate must be at least 3°C above dew-point.
- Do not apply Mapecoat I 600 W if the temperature is lower than +8°C or higher than +35°C.

APPLICATION PROCEDURE

Substrate preparation

It is very important to prepare surfaces as specified to guarantee correct application and to obtain the best performance from resin systems. The best way to prepare substrates is mechanically, such as shot-blasting or grinding with a diamond disk. Milling or scarifying are only required if several millimetres of material need to be removed from the surface. After mechanically preparing the surface, remove all waste and dust by thoroughly vacuuming the surface.

Once the substrate has been prepared, the surface must be sound, compact, clean, dry, slightly rough, absorbent and free of any material that could affect adhesion of the coating, such as:

- cement laitance;

- dust or detached or loose material;
- protective wax, curing products, paraffin or efflorescence;
- any other type of pollutant;
- loose traces of old coating material, etc.

If required, contact MAPEI Technical Services for advice on the most suitable method.

Any defects present in the surface, such as holes, pitting, cracking, etc., must be repaired with **Primer SN** fillerized with quartz sand or made thixotropic with **Additix PE**, depending on the width and depth of the defects or cracks.

Reintegrate any badly damaged areas or joints, fill hollows in the surface and repair or carry out localised modifications to slopes with **Mapecoat EP19** pre-dosed epoxy mortar.

Preparation of the product

Pour component A into the container of component B and mix carefully with a low-speed mixer for a few minutes to form a smooth, even compound. Dilute the product with water at a rate of 1:1 in weight before applying **Mapecoat I 500 W** or at a rate of 1:0.5 before applying **Mapecoat Urban System** and mix again with the mixer for at least 3 minutes.

Application of the product

Apply **Mapecoat I 600 W** in a single, even coat with a medium-pile or long-pile roller. While the product is still wet, lightly broadcast the surface with **Quartz 0.5**.

Wait at least 3-4 hours before removing any excess of sand from the surface and applying **Mapecoat I 500 W (Mapecoat System 53)** or **Mapecoat Urban System**.

CLEANING TOOLS

Clean tools used to prepare and apply **Mapecoat I 600 W** with cold water immediately after use. Once hardened, the product can only be removed mechanically.

CONSUMPTION

According to the absorption of the substrate: 0.15-0.25 kg/m².

PACKAGING

5.9 kg and 11.8 kg kits:
 component A = 2.3 kg and 4.6 kg;
 component B = 3.6 kg and 7.2 kg.

STORAGE

Mapecoat I 600 W may be stored for 24 months in its original packaging in a dry area at a temperature between +5°C and +30°C. PROTECT FROM FROST.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapecoat I 600 W component A irritates the skin and eyes and may cause sensitisation to those predisposed if it comes in contact with the skin.

Mapecoat I 600 W component B is corrosive and may damage the eyes.

When applying the product it is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin wash immediately with plenty of water and seek medical attention.

Mapecoat I 600 W component A is hazardous for aquatic life. Do not dispose of this product in the environment.

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
Colour:	transparent	opalescent

Consistency:	liquid	liquid
Density (g/cm ³):	1.10	1.00
Viscosity at +23°C (mPa·s):	1,600 ÷ 2,700 (# 2 - 10 rpm)	7,000 ÷ 9,000 (# 6 - 20 rpm)
APPLICATION DATA (at +23°C - 50% R.H.)		
Mixing ratio:	component A : component B: = 2.3 : 3.6	
Colour of mix:	opalescent	
Consistency of the mix:	fluid	
Dry substances content (%):	70	
Density of mix (kg/m ³):	1,100	
Viscosity of the mix (mPa·s):	4,500	
Workability time:	2-3 hours	
Application temperature:	+8°C to +35°C	
FINAL PERFORMANCE		
Dust dry (+23°C - 50% R.H.):	3-4 hours (first coat) 6-8 hours (second coat)	
Complete hardening time:	7 days	

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 website www.mapei.com

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