MAPECOAT I 600 W

Two-component transparent water-based epoxy primer

DESCRIPTION

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

TECHNICAL CHARACTERISTICS

- Specific for water vapour permeable epoxy systems.
- Dilutable with water depending on the kind of use.
- Easy to apply.

ADVANTAGES

- Does not emit odors during application.
- Suitable for damp substrates.
- Reduces dust formation from treated surfaces.
- Low VOC emission (CDPH standard)
- Sustainability: it can contribute to LEED credits. EPD (Environmental Product Declaration) compliant.

WHERE TO USE

- Primer for **Mapefloor Urban System**.
- Primer for **Mapefloor I 500 W** (**Mapefloor System 53**).
- Anti-dust treatment for concrete floors, cementitious screeds, etc.

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.

MAPEI

- 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.
- Surfaces treated with **Mapecoat I 600 W** may change colour if exposed to UV rays but this has no effect on the performance characteristics of the treatment.
- 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. The air relative humidity must be max. 80%.
- Do not apply **Mapecoat I 600 W** if the temperature is lower than +8°C or higher than +35°C.

APPLICATION PROCEDURE

Preparation of the substrate

The surface of concrete floors must be dry, clean and sound and have no crumbling or detached areas. The compressive strength of concrete substrates must be at least 25 N/mm² and their tensile strength must be at least 1.5 N/mm². The substrate must also be strong enough for its final intended use and to withstand the types of loads acting on the floor.
The surface of the floor to be treated must be prepared with a suitable mechanical process (e.g. shot-blasting or grinding with a diamond disc) to remove all traces of dirt, cement laitance and crumbling or detached portions, and to make the surface slightly rough and absorbent.
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**, **Mapefloor JA** or **Mapefloor JA Fast** depending on the width and depth of the defects or cracks. To repair highly deteriorated areas and joints, fill large hollows and to create or slightly modify the slope in confined areas, use **Mapefloor EP19**, pre-dosed three-component epoxy mortar.
Before applying the products, thoroughly remove all dust on the surface with a vacuum cleaner.

Preparation of the product

Pour component A into the container of component B and mix with a low-speed electric mixer for a few minutes to form a smooth, even compound. Dilute the product with water at a rate resin:water depending on the kind of use:

- dilute 1:1 by weight if used as primer for **Mapefloor I 500 W**;
- dilute 1:0.5 before applying **Mapefloor Urban System**;
- dilute from 1:1 up to 1:5, depending on the substrate absorption, for anti-dust treatments.

Mix again until completely homogenized.

Application of the product

As primer

Apply **Mapecoat I 600 W** in a single, even coat by medium or long-pile roller. Lightly broadcast with **Quartz 0.5** the still wet surface of the primer.
Wait at least 3-4 hours before removing any excess of sand from the surface and applying **Mapefloor I 500 W** or **Mapefloor Urban System**.

As anti-dust treatment

Apply **Mapecoat I 600 W** in one or more even coats by medium or long-pile roller.

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

0.15-0.50 kg/m².

The real consumption depends on the absorption of the substrate, its roughness, kind of dilution, method of application etc.

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

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

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY		
	component A	**component B**
Colour:	transparent	opalescent
Consistency:	liquid	liquid
Density:	1.10 g/cm³	1.07 g/cm³
Viscosity at +23°C:	1,600-2,700 mPa·s (# 2 - 10 rpm)	7,000-9,000 mPa·s (# 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 solid content:	70%
Density of mix:	1,110 kg/m³
Viscosity of the mix:	4,500 mPa·s
Workability time:	2-3 hours
Application temperature:	+8°C to +35°C

FINAL PERFORMANCE (+23°C - 50% R.H)	
Dust dry:	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

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

TECHNICAL SPECIFICATIONS

Supply and installation of a two-component, transparent water-based epoxy primer (such as **Mapecoat I 600 W** by MAPEI S.p.A.) specifically designed for anti-dust surface treatments or for the priming of cementitious substrates before laying vapour-permeable resin systems (such as **Mapefloor System 53** by MAPEI S.p.A.) or draining and decorative resin screeds for outdoor surfaces (such as **Mapefloor Urban System** by MAPEI S.p.A.). Dilute the product with water in the ratio from 1: 0.5 to 1: 5 by weight depending on the system provided. If used as a primer, when still wet, lightly sprinkle quartz sand with a maximum grain size of 0.5 mm (such as **Quartz 0.5** by MAPEI S.p.A.).
The product must have the following characteristics:

Dry solid content:	70%
Density of the mix:	1,110 kg/m³
Viscosity of the mix:	4,500 mPa·s
Workability time:	2-3 h
Application temperature:	from +8°C to +35°C
Dust dry at +23°C and 50% R.H.:	3-4 h (first coat) 6-8 h (second coat)
Complete hardening time:	7 d
Low VOC emission (CDPH standard)	
Contributes to obtaining LEED credits, EPD (Environmental Product Declaration) compliant	

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