

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)**.
- Anti-dust treatment for concrete floors, cementitious screeds, etc.

TECHNICAL CHARACTERISTICS

Mapefloor 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.

ADVANTAGES

- Ease of application.
- Water-based.
- Suitable for damp substrates.
- The treated surfaces don't produce dust.

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.
- 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.
- 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

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 millimeters 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** or **Mapecoat JA** or **Mapecoat 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 **Mapecoat EP19**, pre-dosed, three-component epoxy mortar.

Preparation of the product

Pour component A into the container of component B and mix carefully with a low-speed electric mixer for a few minutes to form a smooth, even compound. Dilute the product with water at a rate of 1:1 by weight before applying **Mapecoat I 500 W**, at a rate of 1:0.5 before applying **Mapecoat Urban System** and at a rate from 1:1 up to 1:5, depending on the substrate absorption, for anti-dust treatments. Mix again with the mixer for at least 3 minutes.

Application of the product

[As primer](#)

Apply **Mapecoat I 600 W** in a single, even coat by medium or long-pile roller, by spraying or airless system.

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**.

[As anti-dust treatment](#)

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

According to the absorption of the substrate: 0.15-0.50 kg/m² depending on the absorption of the substrate.

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

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/cm ³	1.07 g/cm ³
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/m ³
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.

Mapei S.p.A.

Via Cafiero, 22, 20158, Milano



+39-02-376731



www.mapei.com



mapei@mapei.it

2017-3-2024 en (IT)

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution

