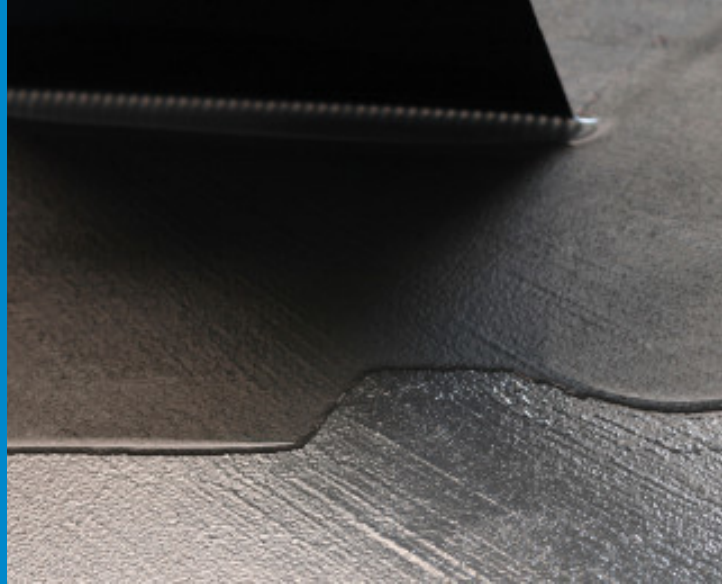
MAPEFLOOR I 300 SL TRP

Two-component transparent non-yellowing epoxy resin





DESCRIPTION

Mapefloor I 300 SL TRP is a two-component, high-solid content epoxy resin, transparent, low-yellowing, used as finishing layer for decorative epoxy resin systems.

TECHNICAL CHARACTERISTICS

- good wear resistance;
- good chemical resistance;
- dustproof;
- impermeable to water and liquids in general;
- transparent colourless;
- low yellowing.

ADVANTAGES

- easy to apply;
- surfaces are easy to clean and sanitize;
- protects the decorative resin systems on which it is applied;
- it does not smell unpleasant during the application.

WHERE TO USE

Mapefloor I 300 SL TRP is used as top self-levelling layer of approx. 1 mm thickness for decorative epoxy resin systems, creating a typical glass-like finish, in commercial, residential and tertiary environments, such as:

- shopping areas;
- offices, show-rooms;
- villas, apartments;
- museums, hotels, professional offices;
- cafés, restaurants, etc.

RECOMMENDATIONS

- Do not use the spike roller on **Mapefloor I 300 SL TRP.**
- Do not dilute **Mapefloor I 300 SL TRP** with solvent or water.
- Do not apply **Mapefloor I 300 SL TRP** on dusty or crumbling substrates.
- Do not apply **Mapefloor I 300 SL TRP** on substrates with oil or grease stains or stains in general.
- Apply **Mapefloor I 300 SL TRP** only over a base layer consisting of an epoxy resin system.
- 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.
- The surfaces of systems created with **Mapefloor I 300 SL TRP** may undergo significant yellowing if exposed to UV rays for prolonged periods. This phenomenon does not affect the performance of the resin system.
- The one-millimeter-thick layer of **Mapefloor I 300 SL TRP** is not a total filter for UV rays, which could cause the beneath resin system to yellow or change colour.
- The surface may also change colour if it comes into contact with aggressive chemicals. A change in colour, however, does not imply any damage caused by chemical aggression.
- If rooms where the product is being used need to be warmed up do not use heaters that burn hydrocarbons; the carbon dioxide and water vapour given off into the air will affect the shine of the finish and its appearance. Use electric heaters only.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor I 300 SL TRP**.
- Use suitable specific cleaning equipment and detergent to clean the resin system, depending on the type of dirt or stain to be removed.
- Protect the product from water for at least 24 hours after the application.
- The temperature of the substrate during the application and the hardening must be at least 3°C higher than the dew-point temperature. The air relative humidity must be max. 80%.

APPLICATION TECHNIQUE

Preparation of the substrate

The surface of the base epoxy resin system must be set, perfectly clean, sound, with no crumbling or detaching parts. On newly installed resin systems, apply **Mapefloor I 300 SL TRP** within 24 hours of applying the base coat. After this time, the surface of the resin system must be treated by sanding with fine sandpaper (80-100 grit) or with an abrasive mesh. On substrates made of old resin systems, evenly roughening the entire surface by grinding with a fine-grain diamond disc.

Before applying the product, thoroughly remove all dust on the surface by vacuum.

Preparation and application of the product

Pour the component B in the component A and mix with a suitable low-speed electric mixer for at least 3 minutes or until a homogeneous mixture is achieved.

Pour the mixture into a clean container and briefly mix again.

Do not overmix the product to avoid entraining too much air into the mixture.

Pour the product onto the floor and spread it out evenly in one millimetre thickness by notched trowel with “V” shaped notches. It is recommended not to exceed the indicated thickness. A greater thickness of product would limit the three-dimensional effect of the finish and could give it a matte appearance.

Do not back-roll with the spike roller.

Apply the mixture within the pot life indicated in the data table. Higher surrounding temperatures will reduce the pot life, while lower temperatures will increase it.

CONSUMPTION

Mapefloor I 300 SL TRP: approx. 1.1 kg/m² to form a 1 mm thick coat.

CLEANING TOOLS

Clean tools used to prepare and apply **Mapefloor I 300 SL TRP** with methylated spirits immediately after use. Once hardened, the product may only be removed using mechanical means.

PACKAGING

18 kg kits: component A = 12 kg; component B = 6 kg.

STORAGE

24 months in its original sealed packaging in a dry place at a temperature of between +5°C and +35°C. The ideal temperature is from +15°C to +20°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.
When the product reacts, it generates considerable heat. After mixing components A and B we recommend applying the product as soon as possible and to never leave the container unguarded until it is completely empty.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	component A	component B
Colour:	transparent/opalescent	transparent
Consistency:	fluid	fluid
Density:	1.05-1.15 g/cm³	0.99-1.05 g/cm³
Viscosity at +23°C:	700-900 mPa·s (#2, rpm 10)	200-300 mPa·s (#2, rpm 50)

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio by weight:	component A : component B = 100 : 50
Colour of mix:	transparent
Density of mix:	1,075-1,085 kg/m³
Viscosity of mix:	800-1,000 mPa·s (#2, rpm 50)
Workability time:	approx. 30 min.
Application temperature (refers to the ambient, material and substrate):	from +10°C to +30°C
Hardening time:	
– dust dry:	approx. 6 hours
– set to foot traffic:	approx. 24 hours
– full hardening:	approx. 7 days
Times above are for indication purposes only, and are influenced by actual site conditions (e.g. temperature of the surroundings and substrate, relative humidity of the air, etc.)	

FINAL PERFORMANCE	
Compressive strength (EN 196-1):	60 N/mm²
Flexural strength (UNI 196-1):	25 N/mm²

Adhesion strength (EN 13892-8):	> 1.5 N/mm² (failure of substrate)
Shore D hardness (EN 13892-8):	80
Abrasion resistance (Taber abrasimeter) (1,000 cycles/1,000 g, CS 17 wheel) (EN ISO 5470-1):	90 mg

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. www.mapei.com.

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

TECHNICAL SPECIFICATION

Supply and installation of a two-component, high-solid content, transparent, low-yellowing epoxy resin (such as **Mapefloor I 300 SL TRP** from MAPEI S.p.A.), suitable as a 1 mm thick self-levelling finish for decorative epoxy resin systems.

The hardened product must have the following characteristics:

Compressive strength (EN 196-1):	60 N/mm²
Flexural strength (EN 196-1):	25 N/mm²
Adhesion strength (EN 13892-8):	> 1.5 N/mm² (failure of substrate)
Shore D hardness (DIN 53505):	80
Abrasion resistance (Taber abrasimeter) (1,000 cycles/1,000 g, CS 17 wheel) (EN ISO 5470-1):	90 mg

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