MAPECOAT TNS PRIMER EPW

Solvent-free, two-component epoxy primer in water dispersion





WHERE TO USE

Mapecoat TNS Prime EPW is a solvent-free, two-component epoxy primer in water dispersion, recommended for surfaces to be coated with acrylic or polyurethane resins.

Some application examples

- Adhesion promoter on resilient sports surfaces.
- Adhesion promoter for acrylic- or polyurethane-based resins on degraded asphalt substrates.
- Adhesion promoter for acrylic- or polyurethane-based resins on cementitious substrates with up to 3% residual humidity.
- Adhesion promoter for absorbent porous cementitious substrates.
- Adhesion promoter for new acrylic or polyurethane resin-based sports flooring on, existing resin, PVC, linoleum substrates.
- Adhesion promoter for high-performance prefabricated rubber elastic mats, such as **Mapecomfort R.**
- Primer for products from the **Mapecoat TNS** range.
- Primer for the products **PU Sealer 750**, **PU 700 SL**, **PU 800 SL FR** and **PU 200 Finish, PU Gym Refresh.**

TECHNICAL CHARACTERISTICS

Mapecoat TNS Primer is a two-component, epoxy resin-based primer according to a formula developed in the MAPEI R&D laboratories.
Mapecoat TNS Primer EPW enables the proper adhesion of MAPEI sports systems on substrates consisting of worn bituminous conglomerate, cementitious and prefabricated rubber mats such as **Mapecomfort R**.
Thanks to its special formulation, **Mapecoat TNS Primer EPW** promotes uniform adhesion of MAPEI resin sports systems to various substrates.
The special chemical properties of **Mapecoat TNS Primer EPW** allow application to cementitious substrates with up to 3% residual humidity.
The special solvent-free and water dispersion composition makes **Mapecoat TNS Primer EPW** also suitable for indoor application.

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RECOMMENDATIONS

- Do not dilute **Mapecoat TNS Extreme EPW** with solvents.
- Do not apply **Mapecoat TNS Primer EPW** on crumbling substrates.
- Do not apply **Mapecoat TNS Primer EPW** if the temperature is lower than +8°C or higher than +35°C.
- Do not apply **Mapecoat TNS Primer EPW** on cementitious substrates in the presence of rising damp or with residual humidity higher than 3%.
- Do not dilute **Mapecoat TNS Prime EPW** with water in a different ratio from that indicated in this technical data sheet.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not apply **Mapecoat TNS Primer EPW** on substrates polluted with oil or grease stains, or with dirt in general.
- Do not expose the mixed product to sources of heat.
- Protect the product from water for at least 24 hours after application. If the primer comes in contact with water within 24 hours of application, re-apply the primer.
- The primer is to be coated within 24 hours. If the primer is not coated within 24 hours of application, re-apply the primer.
- The temperature of the substrate must be at least 3°C higher than the dew-point temperature.

APPLICATION PROCEDURE

Preparation of the substrate

It is very important that the surface is prepared correctly to guarantee perfect adhesion and the best performance of the resin system.
Before applying **Mapecoat TNS Primer EPW**, ensure that the substrate is flat, clean and free from dust, dirt, oil, grease, release agents, wax, old detaching coating residues, and from any other substance or condition which may compromise or reduce the adhesion of the product.
In the case of concrete substrate with the presence of superficially impregnated oils and greases, it is recommended to clean vigorously with a 10% solution of water and soda or with detergent soaps followed by abundant rinsing with clean water.
In case, however, these substances have penetrated deep into the substrate, it is necessary to remove the polluted concrete by scarification.
If required, contact MAPEI Technical Services for advice on the most suitable mechanical preparation method.
Mapecoat TNS Primer EPW can be applied on surfaces with up to 3% residual humidity.
Any cracking present in the concrete substrate must be repaired by applying **Eporip**, **Eporip Turbo** or **Epojet** epoxy resin.
If necessary, repair areas of concrete with cementitious mortars from the **Mapegrout** or **Planitop** range.
Expansion joints must be sealed by applying **Mapefoam** and **Mapeflex PU 45 FT** or **Mapeflex PU 40**, broadcasted with **Quartz 0.5** while the sealant is till fresh.
For bituminous substrates, cracks must be filled and repaired using reactive products such as **Ultrabond Turf 2 Stars Pro**, **Ultrabond Turf 2 Stars** or **Ultrabond Turf PU 2K**.
In the presence of hollows up to 2 cm deep, the use of a balanced mix of the above-mentioned products (**Ultrabond Turf**) and 15-20% by weight of dry silica sand **Quartz 0.9** is recommended. Broadcast with **Quartz 0.5** or **Quartz 0.9** on the surface while it is still fresh, making sure it is completely saturated.
Badly damaged and worn asphalt must be removed and repaired with **Mapeasphalt Repair 0/8**.

Preparation of the product

Mapecoat TNS Primer EPW is a two-component product. The two components must be mixed together just before application.
Mix component B thoroughly and add the contents of component A. Mix again for at least 2 minutes with an electric mixer fitted with a mixing attachment at low-speed to avoid entraining air into the product until they are completely blended.

After proper mixing of the two components, dilute with water in a ratio of1:0.5 and mix as previously used for at least 3 minutes.

Application of the product

Mapecoat TNS Primer EPW is applied in one or more coats depending on the type of substrate, evenly, with a medium- or long-haired roller by spray or rubber squeegee.
Wait until completely dry before applying the top coating product; temperatures and environmental conditions affect drying times.

CLEANING

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

CONSUMPTION

The consumption rate for **Mapecoat TNS Primer EPW** is heavily influenced by the absorption and roughness of the substrate and by the application method used.
Considering a homogeneous substrate, 0.1-0.2 kg/m^2 (diluted product).

PACKAGING

10 kg unit:

- component A = 2 kg
- component B = 8 kg

STORAGE

Mapecoat TNS Primer EPW can be stored for 12 months in its original packaging in a dry area at a temperature of at least +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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

TECHNICAL DATA (typical values)

PRODUCT IDENTITY		
	component A	**component B**
Colour:	transparent	beige
Consistency:	liquid	liquid
Density (g/cm³):	1.10	1.30

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	component A : component B = 1 : 4
Colour of mix:	beige
Consistency of mix:	fluid
Density of A+B diluted with water 1 : 0.5 (kg/m³):	1.15
Dry solids content (%):	70
Workability time:	40-50 min.
Waiting time before applying top coating:	5-6 hours
Application temperature:	from +8°C to +35°C

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.
Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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