

# MAPECOAT TNS WHITE BASE COAT

Acrylic semi-flexible waterborne textured base coating



## DESCRIPTION

**Mapecoat TNS Base Coat White** is a semi-flexible, textured, waterborne acrylic basecoat for both indoor and outdoor surfaces to prepare asphalt and pre-treated concrete surfaces before applying additional **Mapecoat TNS** products. **Mapecoat TNS Base Coat White**, thanks to the enhanced formulation designed at MAPEI R&D Laboratories, is combined with **Mapecoat TNS** system products to form durable and comfortable playing surfaces.

## WHERE TO USE

- Basecoat for indoor and outdoor sport surfaces to prepare asphalt and pre-treated concrete surfaces before applying additional **Mapecoat TNS** products.
- Basecoat for outdoor urban areas.
- Basecoat over pre-treated existing acrylic or urethane surfaces before applying additional **Mapecoat TNS** products.
- Basecoat over rough substrates to compensate for an uneven substrate prior applying additional **Mapecoat TNS** products.
- To locally pre-coat depressions and crack/hole repairs for thicknesses not exceeding 3 mm to achieve better planarity prior to filler course application.

## TECHNICAL CHARACTERISTICS

**Mapecoat TNS White Base Coat** can be applied on rough substrates and, thanks to the specific filling and smoothing properties, it allows to obtain even surfaces in combination to an adjusted consumption of the next **Mapecoat TNS** topcoatings.

Thanks to the enhanced bond strength, **Mapecoat TNS White Base Coat** may be applied on both coated existing surfaces and new surfaces which require for a brand-new installation.

## RECOMMENDATIONS

- Prolonged exposure to sunlight should be avoided and limited to the application phase: **Mapecoat TNS White Base Coat** shall be overcoated by additional **Mapecoat TNS** coatings.
- Do not dilute **Mapecoat TNS White Base Coat** with solvents.
- Substrate must be clean and free of dust, dirt, oil, grease, paint curing agents, concrete sealers, loosely bonded toppings, loose particles, old coating residues and any other substances or condition that may prevent or reduce adhesion.
- Concrete substrate shall be fully cured (at least 28 days and residual humidity lower than 3%), free from hydrostatic pressure, provide for a damp proof membrane and sound for the intended use.
- New asphalt shall be allowed to oxidize for a period of minimum 15 days depending on climatic conditions.
- When applying **Mapecoat TNS White Base Coat** on top of existing coatings, preliminary tests shall be carried out in order to ensure an appropriate adhesion is achieved between the layers.

- When applying **Mapecoat TNS White Base Coat** on concrete or cementitious substrates, priming with **Mapecoat TNS Primer EPW** is mandatory, or with **Triblock P** in case of residual humidity between 4 and 6% maximum.
- Do not apply when rain is imminent or the weather is particularly windy.
- Do not apply over damp or wet surfaces.
- The substrate temperature shall be between +10 and +50°C.
- Do not apply if the ambient temperature is lower than +10°C or higher than +35°C or the humidity is higher than 85%.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrate must be clean and free of dust, dirt, oil, grease, paint curing agents, concrete sealers, loosely bonded toppings, loose particles, old coating residues and any other substances or condition that may prevent or reduce adhesion. The substrate strength must be adequate to the intended use and comply with Sport Associations and Federations guideline, if any.

Any cracks present in the concrete substrate shall be repaired by an appropriate filling product such as the epoxy resin for injections **Eporip**. If any area needs to be both restored and levelled, proceed by using cementitious mortars such as **Mapegrout** or **Planitop** range. Should joints be present, application of **Mapefoam** and **Mapeflex PU 45 FT** or **Mapeflex PU 40** is suggested, in combination with fresh sealant broadcast with silica sand 0.5.

In case of bituminous substrate, cracks shall be filled and repaired by using reactive products such as **Ultrabond Turf 2 Stars Pro**, or **Ultrabond Turf PU 2K**. In presence of depressions up to 2 cm deep, a balanced mix of the above mentioned products (**Ultrabond Turf**) and 15-20% on weight of silica sand **Quartz 0.5** or **Quartz 0.9** is suggested, paying attention to achieve complete coverage. Heavily damaged and worn out asphalt shall be removed and replaced by a fresh lay, eventually with the ready-to-use reactive product **Mapeasphalt Repair 0/8 mm**.

### Product preparation

**Mapecoat TNS White Base Coat** is applied as it is or diluted with water up to 15% (maximum) according to the application method used. The use of a low-speed mechanical mixer is recommended. The mixture should be stirred until it reaches a homogenous consistency, avoiding entrapping air. Periodical remixing during the application process is recommended in order to keep the mixture homogeneous.

### Application of the product

Apply **Mapecoat TNS White Base Coat** with a metal or rubber trowel (50 or 70 durometer, such as **Spatola 65** for **Mapecoat TNS**). Application of 1-2 coats of **Mapecoat TNS White Base Coat** is recommended. Wait 12-24 hours prior overcoating, at +23°C and 50% humidity.

## CLEANING

Clean tools with water while the product is still fresh/wet. After drying, **Mapecoat TNS White Base Coat** shall be mechanically removed.

## COVERAGE

Actual jobsite coverage may vary according to substrate conditions and application technique used. In the presence of even substrate, average consumption referred to the first coat applied by trowel is as follows:

- wear bituminous course, approximately 1 kg/m<sup>2</sup>;
- smooth cementitious and non-absorbing surface, approximately 0.5 kg/m<sup>2</sup>.

Coverage shown is for estimating purposes only.

*Average consumption if a second coat is applied is approx. 0.500 kg/m<sup>2</sup>.*

## PACKAGING

**Mapecoat TNS White Base Coat** is supplied in 20 kg plastic drums.

## STORAGE

24 months when stored in original, unopened packaging at temperature between +5°C and +30°C. Protect from freezing.

## 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](http://www.mapei.com).

<b>TECHNICAL DATA (typical values)</b>	
<b>DESCRIPTION</b>	
Semi-flexible acrylic waterborne resin basecoat with selected fillers for multi-sports and tennis courts	
<b>PRODUCT IDENTITY</b>	
Consistency:	thick liquid
Dry solids content (%):	approx. 80
Density (g/cm <sup>3</sup> ):	approx. 1.55
Damp abrasion (DIN 53778) (cycles):	> 10,000
Failure load (DIN 53504) after 7 days at +23°C (N/mm <sup>2</sup> ):	> 0.50
Elongation at failure (DIN 53504) after 7 days at +23°C (%):	> 46
Change in colour after 1,000 hours exposure to a Weather-Ometer (according to ASTM G 155 cycle 1) white colour:	$\Delta E < 0.5$
Vapour diffusion resistance coefficient ( $\mu$ ) (EN ISO 7783/2):	400
Resistance to passage of vapour for a 0.5 mm thick dry layer $S_D$ (m) (EN ISO 7783/2):	0.2
Capillary action water absorption coefficient $W_{24}$ [kg/(m <sup>2</sup> ·h <sup>0.5</sup> )] (EN ISO 1062/3):	0.08
Bond strength to concrete (N/mm <sup>2</sup> ):	> 0.8
<b>PREPARATION</b>	
Mapecoat TNS White Base Coat is applied as it is or diluted with 5 to 15% (maximum) of water according to the application method used	
DRYING:	open air
Ready to overcoat:	12-24 hours at +23°C and 50% relative humidity. Low temperatures and high humidity will extend drying time

## 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.

## 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](http://www.mapei.com).*

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