

# MAPECOAT TNS COLOR

Fine-grained acrylic coloured coating for Mapecoat TNS multi-layered systems



## DESCRIPTION

**Mapecoat TNS Color** is a coloured coating with selected fillers, to be used as pore filler for **Mapecoat TNS RP** mat or as a coloured top coating for **Mapecoat TNS** systems, to create sports surfaces such as basketball courts, volleyball courts, futsal pitches and multi-purpose sports surfaces in general.

## WHERE TO USE

- Filler undercoat for the PVC mat **Mapecoat TNS RP**.
- Coloured coating for internal and external surfaces for basketball courts, skating areas, velodromes, multi-purpose sports surfaces.
- Coloured coating for the creation and restoration of sports surfaces already coated with synthetic resins.

## RECOMMENDATIONS

- Do not dilute **Mapecoat TNS Color** with solvent.
- Do not apply **Mapecoat TNS Color** directly on dusty, crumbling or weak surfaces.
- Do not apply **Mapecoat TNS Color** on substrates with oil or grease stains or with stains in general.
- The concrete substrate must be completely cured (min. 28 days with residual moisture under 3%) and free from rising damp. In case of new concrete substrates, apply a suitable vapour barrier.
- New asphalt substrates must be cured for at least 15-20 days, according to climatic conditions, to allow correct oxidation.
- Do not use **Mapecoat TNS Color** on substrates with water in counter-pressure. In this cases a suitable treatment of the surface with specific products must be carried out and only after the treatment the application of **Mapecoat TNS Color** can be evaluated, if possible.
- **Mapecoat TNS Color** may only be applied over other finishing products after carefully checking the state of the old layer and after carrying out preliminary tests to verify their compatibility and that there is good adhesion between the old finishing product and **Mapecoat TNS Color**.
- It is possible to apply **Mapecoat TNS Color** on cementitious substrates only after priming.
- Do not apply if it is about to rain or in windy weather.
- Do not apply on damp or wet surfaces.
- The temperature of the substrate must be between +10°C and +50°C.
- Do not apply at temperatures lower than +10°C or higher than +35°C.

# APPLICATION PROCEDURE

## Preparation of the substrate

Before applying **Mapecoat TNS Color** the substrate must be flat, clean and free from dust, dirt, oil, grease, wax, old detaching coating residues and from any other substance or condition which could compromise or reduce the adhesion of the product. The substrate's mechanical strength must comply with its intended use and with the respective Sports Associations and Federations guidelines, if present.

### Concrete substrates

The surface of the floor must be prepared with suitable power tools (e.g. shot-blasting or grinding with a diamond disk) to remove all traces of dirt, cement laitance and crumbling or detached portions and to make the surface slightly rough and absorbent. Before applying the product remove all dust from the surface with a vacuum cleaner.

As an alternative to the mechanical treatment described above, in case of smooth and low-absorbency surfaces, rinse with a solution of clean water and 5-10% **UltraCare HD Cleaner**. Spread the solution on the whole surface using a brush or a rotating cleaning machine and then rinse again with plenty of water (for further information please refer to **UltraCare HD Cleaner** Technical Data Sheet).

In order to grant the correct adhesion of **Mapecoat TNS Color**, a suitable primer must be applied on the dry substrate. In case of substrates with residual moisture up to 3% use **Mapecoat TNS Primer EPW**.

In presence of residual moisture from 3 to 6%, apply a suitable chemical barrier using **Triblock P** three-component epoxy-cementitious primer.

Apply the first coat of **Mapecoat TNS Color** within 24 hours of applying **Mapecoat TNS Primer EPW** and within 36 hours if a **Triblock P** chemical barrier has been applied.

Repair any cracks in the surface using epoxy resins such as **Eporip**, **Eporip Turbo**, **Epojet** or equivalent Mapei products. If necessary, repair areas of concrete with cementitious mortars from the **Mapegrout** or **Planitop** range or equivalent Mapei products.

Expansion joints must be sealed by applying **Mapefoam** and **Mapeflex PU 45 FT**, **Mapeflex PU 40** or equivalent Mapei products, broadcasting with **Quartz 0.5** while the sealant is still fresh.

### Bituminous substrates

Fill and repair any cracks using fillers for high thickness applications such as **Ultrabond Turf 2 Stars**, **Ultrabond Turf 2 Stars Pro** or **Ultrabond Turf PU 2K** (two-component quick-drying products).

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 **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 replaced by applying **Mape-Asphalt Repair 0/8**.

## Preparation of the product

- Mix **Mapecoat TNS Color** in its original packaging with a suitable electric mixer fitted with a mixing attachment at low speed to avoid entraining air into the product.
- Dilute **Mapecoat TNS Color** with water and mix for at least 2 minutes until an even mix is obtained. It is recommended to keep the mix well blended during the application phase repeating the mixing operation.

Mapecoat TNS Color	Water amount
20 kg	from 1 to 2 l

## Application of the product

Apply **Mapecoat TNS Color** with a rubber squeegee (50 or 70 Shore hardness such as **Trowel 65 for Mapecoat TNS**), a roller (such as mohair 5 mm), or by spray (with an air-HVLP spray gun).

It is recommended to apply **Mapecoat TNS Color** as follows:

- 1 coat, if used as filler undercoat for preparation.
- 2 coats, if used as colour coating for new or existing surfaces.
- 3 coats, in case of very bright/vivid colours (lemon yellow, bright red, orange, etc.), which may not cover perfectly.

## CONSUMPTION (referred to undiluted product)

Coats	Consumption on porous substrates	Consumption on non-porous substrates
First coat	0.8-1 kg/m <sup>2</sup> (on substrates such as <b>Mapecoat TNS RP</b> )	0.2-0.4 kg/m <sup>2</sup>
Second coat	-	0.2-0.3 kg/m <sup>2</sup>

## DRYING

In 12-24 hours at +23°C and 50% humidity.

Always check drying times based on weather conditions (low temperatures, shadow areas if present, high humidity percentage), which strongly affect drying and re-coat times.

## CLEANING

Clean tools with water while the product is still fresh. Once dry, **Mapecoat TNS Color** may only be removed mechanically.

## PACKAGING

**Mapecoat TNS Color** is supplied in 20 kg plastic buckets.

## STORAGE

**Mapecoat TNS Color** remains stable for 24 months if stored in a dry place away from sources of heat at a temperature of +5°C to +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 SDS available from our website [www.mapei.com](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### DESCRIPTION

Fine-grained acrylic coloured coating for Mapecoat TNS multi-layered systems

### PRODUCT IDENTITY

Appearance:	thick liquid
Dry solids content:	approx. 68%
Bulk density:	approx. 1.4 g/cm <sup>3</sup>
Damp abrasion DIN 53778:	> 15,000 cycles
Taber test abrasion after 7 days at +23°C - 50% R.H. CS17 disk, 1000 g weight, weight loss at 500 revs:	< 0.2 g
Breaking load DIN 53504 after 7 days at +23°C:	0.6 N/mm <sup>2</sup>
Elongation at break DIN 53504 after 7 days at +23°C:	285%

Change in colour after 1,000 hours exposure to a Weather-Ometer (according to ASTM G 155 cycle 1):	
- blue:	$\Delta E < 0.8$
- green:	$\Delta E < 0.5$
- light blue:	$\Delta E < 0.5$
- red:	$\Delta E < 0.5$
- white:	$\Delta E < 0.5$
Water-vapour transmission resistance (EN ISO 7783-2):	1450 $\mu$
Resistance to water vapour for 0.20 mm dry thickness S (EN ISO 7783-2):	0.29 m
Water absorption due to capillary action $W_{24}$ (EN 1062-3):	0.03 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )

## 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](http://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.

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