

# MAPECOAT TNS MULTISPORT COMFORT

High elasticity multi-layered system, made of acrylic resins in water dispersion, with granular rubber mat for both indoor and outdoor multisport areas.



## PRODUCTS USED IN THE SYSTEM

- Adhesive: **ULTRABOND SPORT / ULTRABOND TURF 2 STARS PRO**
- Granular rubber mat: **MAPECOMFORT R**
- Primer: **MAPECOAT TNS PRIMER EPW**
- Filler undercoat: **MAPECOAT TNS WHITE BASE COAT HV**
- Base colour finish: **MAPECOAT TNS BASE COLOR**
- Coloured finish: **MAPECOAT TNS COLOR**
- Markings: **MAPECOAT TNS LINE** or **MAPECOAT TNS LINE TEX**

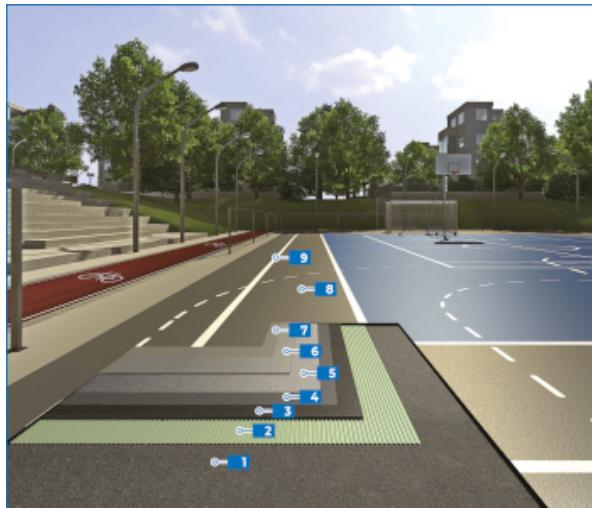
## TECHNICAL CHARACTERISTICS

**MAPECOAT TNS MULTISPORT COMFORT** is a system characterised by high resistance to wear, UV rays and adverse weather conditions.

**MAPECOAT TNS MULTISPORT COMFORT** can be applied on both existing flooring and on surfaces to be covered with bituminous or cementitious conglomerate.

**MAPECOAT TNS MULTISPORT COMFORT**, thanks to the properties of the flexible undercoat (MAPECOMFORT R) creates high-performance flooring which ensure reduced impact trauma and good playing comfort, as well as excellent technical performances, quick and safe direction changes in running, with good slide/balance ratio for the final user.

**MAPECOAT TNS MULTISPORT COMFORT** provides playing surfaces with an excellent aesthetic appearance, making them easily and quickly renewable.



1	Asphalt
2	Adhesive <b>ULTRABOND SPORT / ULTRABOND TURF 2 STARS PRO</b>
3	Granular rubber mat <b>MAPECOMFORT R</b>
4	Primer <b>MAPECOAT TNS PRIMER EPW</b>
5	Filler undercoat <b>MAPECOAT TNS WHITE BASE COAT HV</b>
6	Finitura colorata di base <b>MAPECOAT TNS BASE COLOR</b>
7/8	Coloured finish: <b>MAPECOAT TNS COLOR</b>
9	Synthetic resin <b>MAPECOAT TNS LINE</b>

## PERFORMANCE AND ADVANTAGES

- Excellent playing comfort
- EN 14808 & 14809 (Shock Absorption & Vertical Deformation) certified
- Excellent aesthetic appearance and high functionality.
- Excellent price-performance ratio.
- Does not contain solvents.
- Resistant to adverse weather conditions.
- High UV resistance.

## FINAL USE

- Multi-purpose areas

## SURFACE PREPARATION

### 1. Characteristics of the substrate

Before applying **MAPECOAT TNS MULTISPORT COMFORT** cycle, the substrate on which the covering it is to be applied must be carefully analysed. The substrate must be strong enough for the loads the surface will have to withstand when in use in order to carry out the application successfully.

#### Minimum requirements for concrete substrates:

- suitably cured (minimum 28 days)
- free from rising damp (max. residual moisture 4%)
- dry
- flat
- free from detaching or loose parts
- presence of suitable slope for the flowing of rainwater.

## minimum requirements for bituminous mats:

- suitably cured (minimum 15–20 days)
- dry
- flat
- free from detaching or loose parts
- presence of suitable slope for the flowing of rainwater.

Notes: The absence of a suitable vapour barrier (concrete) could lead to detachment and/or blisters. The mechanical strength of the surface must comply with its intended use and with the respective Sports Associations and Federations guidelines, if present.

## 2. Preparation of the substrate

### 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, carefully vacuum off the dust from the surface.
- As an alternative to the mechanical treatment described above, in case of smooth and low-porosity surfaces, rinse with a solution of clean water and 5 - 10% **UltraCare HD Cleaner** (or equivalent products from **UltraCare** range). Spread the solution on the whole surface using a brush or a single disc buffering machine and then rinse again with plenty of clean running water (for further information please refer to **UltraCare HD Cleaner** Technical Data Sheet).
- In presence of residual moisture from 3 to 6%, apply a suitable chemical barrier using **Triblock P** three-component epoxy-cementitious primer.
- Repair any cracks in the surface using epoxy resins such as **Eporip**, **Eporip Turbo**, **Epojet** or equivalent Mapei products. If necessary, repair damaged concrete areas with cementitious mortars from the **Mapegroutor Planitop** range or equivalent Mapei products.
- Expansion joints must be sealed with **Mapefoam** and **Mapeflex PU 45 FT**, **Mapeflex PU 40** or equivalent Mapei products, and broadcasted 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 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 replaced by applying **Mape-asphalt Repair 0/8**.

## 3. Preliminary checks before application

Make sure that all the assessments from section 1 "Characteristics of the substrate" have been carried out and that all the operations indicated in section 2 "Preparation of the substrate" have been carried out correctly. The surrounding temperature must be between +10°C and +35°C (the ideal application temperature is between +15°C and +25°C) and the temperature of the substrate must be at least 3°C above dew-point.

## 4. Preparation and application of the products

Carefully follow the preparation instructions contained in the Technical Data Sheets for each single product used to form the complete system:

Consumption rates below refer to **MAPECOAT TNS MULTISPORT COMFORT** applied on a surface as flat bituminous mat with filler grain size of 0.6 to 0.8 mm. Rougher surfaces and application at lower temperatures could lead to an increase in consumption and longer hardening times.

### Yield of materials:

#### Adhesive:



**ULTRABOND TURF 2 STARS PRO:** 1 coat (approx. 1-1.5 kg/m<sup>2</sup>)

**Granular rubber mat:**

**MAPECOMFORT R**

**Primer:**

**MAPECOAT TNS PRIMER EPW:** 1 coat (approx. 0.1-0.2 kg/m<sup>2</sup>)

**Filler undercoat:**

**MAPECOAT TNS WHITE BASE COAT HV:** 1 coat (approx. 0.7 kg/m<sup>2</sup>)

**Intermediate finish coating:**

**MAPECOAT TNS BASE COLOR:** 1 coat (approx. 0.5 kg/m<sup>2</sup>)

**Coloured finish:**

**MAPECOAT TNS COLOR:** 2 coats (approx. 0.3 kg/m<sup>2</sup> for each coat)

**Markings:**

**MAPECOAT TNS LINE / MAPECOAT TNS LINE TEX:** 2 coats (consumption to be verified according to the type of markings.)

## 5. Cleaning

Please refer to the respective technical data sheets of products to clean tools used during application.

## 6. Hardening and step-on times

Once the system is completely applied, at +23°C and 50% R.H., the surface sets to foot traffic after 12 hours. Lower temperatures lead to longer hardening and step-on times.

## 7. Cleaning and maintenance

Regular cleaning and maintenance operations increase the flooring's service life, improve its aesthetic properties and reduce its tendency to collect dirt. For cleaning and maintenance operations please refer to the respective manuals.

## TECHNICAL DATA

PERFORMANCE CHARACTERISTICS OF MAPECOAT TNS MULTISPORT COMFORT SYSTEM			
STANDARD:	TEST:	RESULTS:	
EN 14808:2005*	Shock absorption	%	10.5
EN 14809:2005*	Vertical deformation	mm	0.8
EN 12230*	Tensile strength	MPa	0.40
EN 12230*	Elongation at	%	101

## TECHNICAL DATA FOR MAPECOAT TNS PAINT (after 7 days at +23°C)

<b>ASTM 155 cycle 1</b>	Colour variation after 1000 hours exposure to Weather-Ometer		
	Colour BLUE: <b>ΔE</b>	<0.8	
	Colour GREEN: <b>ΔE</b>	<0.5	
	Colour LIGHT BLUE: <b>ΔE</b>	<0.5	
	Colour RED: <b>ΔE</b>	<0.5	
	Colour WHITE: <b>ΔE</b>	<0.5	
<b>Slip resistance (EN 13036-4) on wet surface:</b>		$\geq 55 \text{ N/mm}^2$	

## 8. 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 of each product, available from our website [www.mapei.com](http://www.mapei.com)

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