



Mapecoat TNS Color

Fine-grained coloured coating made from acrylic resin in water dispersion and micro-granular quartz sand, for indoor and outdoor tennis courts, multi-purpose playing fields, cycle tracks and footpaths

WHERE TO USE

Coating and finishing product with good filling capacity for indoor and outdoor tennis courts, multi-purpose playing fields, cycle tracks and footpaths.

Some application examples

- Maintenance and painting operations on new or old, worn surfaces, such as tennis courts, multi-purpose sports fields, cycle tracks and pedestrian areas previously coated with **Mapecoat TNS Finish** or **Mapecoat TNS Urban**.
- Maintenance operations on internal and external surfaces previously coated with synthetic resins.

TECHNICAL CHARACTERISTICS

Mapecoat TNS Color is a fine-grained coating product with good filling capacity, made from a balanced mix of acrylic resins in water dispersion, additives, micro-granular quartz sand and selected fillers.

When **Mapecoat TNS Color** is applied over **Mapecoat TNS Finish** or **Mapecoat TNS Urban**, it forms a synergistic cycle which guarantees excellent surface protection and higher durability.

Mapecoat TNS Color may be applied on both old surfaces which are already painted and on new surfaces which require painting.

Mapecoat TNS Color has excellent resistance to abrasion and guarantees the durability of surfaces even when used frequently.

Mapecoat TNS Color is resistant to all types of climatic conditions, aggression from smog and sunlight and offers hard-wearing, durable protection for substrates.

Mapecoat TNS Color is available in 20 standard colours and in a wide range of other colours upon request.

RECOMMENDATIONS

- Do not dilute **Mapecoat TNS Color** with solvents.
- Do not apply **Mapecoat TNS Color** directly on dusty, crumbly or incoherent surfaces.
- Do not apply **Mapecoat TNS Color** on substrates polluted with oil, grease or dirt in general.
- Do not apply **Mapecoat TNS Color** on surfaces used by heavy-goods vehicles.
- **Mapecoat TNS Color** must not be applied directly on substrates subject to water under pressure. In such cases, the surface must be treated with an appropriate product, and only after applying such a product should the possibility of using **Mapecoat TNS Color** be assessed.
- **Mapecoat TNS Color** may only be applied on top of other finishing products after carefully checking the state of the old layer and after carrying out preliminary tests to verify that they are compatible and that there is good adherence between the old paint and **Mapecoat TNS Color**.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Appearance:	pasty liquid
Dry solids content (%):	approx. 68
Density (g/cm ³):	approx. 1.4
Viscosity of product (mPa·s):	approx. 23,000
Damp abrasion DIN 53778 (cycles):	> 15,000
Taber abrasion test after 7 days at 23°C - 50% R.H. CS17 disk, weight 1000 g, loss in weight after 500 revs. (g):	< 0.2
Failure load DIN 53504 after 7 days at 23°C (N/mm ²):	0.6
Elongation at failure 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:	ΔE < 0.8
– green:	ΔE < 0.5
– sky blue:	ΔE < 0.5
– red:	ΔE < 0.5
– white:	ΔE < 0.5
Vapour diffusion resistance coefficient (μ) (UNI EN ISO 7783-2):	1450
Resistance to the passage of vapour of a 0.20 mm thick dry layer S ₀ (m) (UNI EN ISO 7783-2):	0.29
Capillary action water absorption coefficient W ₂₄ [(kg/(m ² ·h ^{0.5}))] (UNI EN 1062-3):	0.03

APPLICATION PROCEDURE

Preparation of concrete substrates

Concrete surfaces to be treated with this product must be clean, free of loose parts and as flat as possible or with a maximum slope of 1.5%. The substrate must be sufficiently strong for the loads to which the surface will be subjected when in service. Any cracks must be repaired by filling them with **Eporip**, while any deteriorated areas of the concrete must be repaired with a cementitious mortar from the **Mapegrout** range or with **Planitop 400**. Before applying **Mapecoat TNS Color**, remove all traces of dust from the surface with a vacuum cleaner. Before applying the product on concrete, apply 1 coat of **Mapecoat I 600 W** primer diluted at a ratio of 1:1 with clean water. If the product is applied on surfaces previously coated with synthetic resins or on an unknown type of coating, test a small area

of the surface for adhesion and paintability by applying a coat of **Mapecoat I 600 W** primer diluted at a ratio of 1:1 with clean water and, after 4-6 hours, two coats of **Mapecoat TNS Color**.

Preparation of the product

Dilute **Mapecoat TNS Color** with approximately 10-15% of water. Mix the product thoroughly before use. Where possible use a drill at low speed to prevent entraining air into the product.

Application of the product

Apply **Mapecoat Color** with a rubber trowel or a roller. The cycle comprises the application of at least 2/3 coats of **Mapecoat TNS Color**. Wait 12-24 hours between each coat in normal temperature and humidity conditions. When applying the product on uneven

surfaces or on top of particularly bright colours (lemon yellow, bright red, orange, etc.) which are difficult to cover perfectly, we recommend the following application procedure:

- apply 1 or 2 coats of white **Mapecoat TNS Color**. The number of coats required depends on the colour of the surface on which the product is applied and/or the degree of cover required;
- apply 2 or 3 coats of **Mapecoat TNS Color** in the colour selected. In this case, the number of coats depends on the intensity of colour required (the colour is brighter if more coats are applied) and the covering capacity of each colour.

Provide adequate protection for surfaces freshly painted with **Mapecoat TNS Color** before it has completely dried to prevent rain coming into contact with the product and compromising adhesion and final quality.

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

Do not apply **Mapecoat TNS Color** if it is about to rain or in windy weather.
Do not apply **Mapecoat TNS Color** on damp or wet surfaces, adhesion could be compromised.
Do not apply if the temperature is lower than +10°C or higher than +35°C.
Do not apply if the level of humidity is higher than 85%.

Cleaning

Clean tools used to apply **Mapecoat TNS Color** with water before the product dries.

CONSUMPTION

Consumption is heavily influenced by the absorption and roughness of the substrate and the application method used. Consumption is approximately 0.8-1.0 kg/m² for application on even substrates with a rubber trowel (for two/three coats of finish).

PACKAGING

Mapecoat TNS Color is supplied in 20 kg plastic drums.

STORAGE

24 months if stored in a dry place away from sources of heat at a temperature of between +5°C and +30°C. Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapecoat TNS Color is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. However, we recommend taking the usual precautions for handling chemical products. If the product is applied in closed environments, make sure the area is well ventilated.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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

**All relevant references
for the product are available
upon request and from
www.mapei.com**



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