



Mapecoat TNS Protection

Two-component transparent protective finish for products from the Mapecoat TNS line

WHERE TO USE

Protective finish for indoor and outdoor tennis courts, multi-purpose playing surfaces, pedestrian areas and cycle paths.

Some application examples

- Maintenance operations on new, old or worn surfaces such as tennis courts, multi-purpose playing surfaces, pedestrian areas and cycle paths previously coated with a product from the **Mapecoat TNS** line.
- Maintenance operations on internal and external surfaces previously coated with synthetic resin.

TECHNICAL CHARACTERISTICS

Mapecoat TNS Protection is a transparent finishing product made from a balanced mix of two-component ready-for-use resins.

When **Mapecoat TNS Protection** is applied over **Mapecoat TNS Finish 1.3.4**, **Mapecoat TNS Color**, **Mapecoat TNS Paint** or **Mapecoat TNS Urban**, it forms a synergic system that guarantees excellent protection for surfaces and increases their durability. **Mapecoat TNS Protection** may be applied on old surfaces which have already been painted.

Mapecoat TNS Protection has excellent resistance to abrasion and guarantees long-lasting durability of surfaces, including those used frequently.

Mapecoat TNS Protection is resistant to all types of climatic conditions, aggression from smog and sunlight and forms a durable layer which lasts many years.

RECOMMENDATIONS

- Do not dilute **Mapecoat TNS Protection** with solvents.
- Do not apply **Mapecoat TNS Protection** directly on dusty, crumbly or weak surfaces.
- Do not apply **Mapecoat TNS Protection** on substrates with oil or grease stains or on dirty surfaces in general.
- Do not apply **Mapecoat TNS Protection** on surfaces used by heavy-goods vehicles.
- **Mapecoat TNS Protection** 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 Protection** be assessed.
- **Mapecoat TNS Protection** 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 it is compatible and that a good bond is formed between the old coating and **Mapecoat TNS Protection**.

APPLICATION PROCEDURE

Apply **Mapecoat TNS Protection** by spray or with a roller (for 1 or 2 coats).

Before applying **Mapecoat TNS Protection**, remove all traces of dust from the surface with a vacuum cleaner.

| TECHNICAL DATA (typical values) | |
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| PRODUCT IDENTITY | |
| Mixing ratio: | comp. A : comp. B = 100 : 20 |
| Colour of mix: | opaline milky |
| Consistency of mix: | fluid |
| Workability time: – dust dry (at +23°C and 50% R.H.): – set to foot traffic (at +23°C and 50% R.H.): | 70 mins. at least 12 h |
| Complete hardening time: | 7 days |
| Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g): | 30 mg |
| Consumption: | 0.1-0.2 kg/m ² depending on the absorption of the substrate |
| – Density A 1.03 kg/l Viscosity A: – Density B 1.15 kg/l Viscosity B: – Density A+B 1.05 kg/l Viscosity A+B: | needle 1 50 rpm 82 needle 2 20 rpm 600 needle 2 100 rpm 176 |
| Appearance: | transparent opaque |
| Gloss: | 2 |
| Resistance to QUV: | excellent |

If the product is applied on surfaces previously coated with synthetic resin or on an unknown type of coating, test a small area of the surface for adhesion and paintability.

Preparation of the product

Prepare **Mapecoat TNS Protection** by carefully mixing component A with component B using a drill at low-speed with a mixing attachment to form an even compound. Dilute with around 10-15% of water and mix again with a low-speed drill with a mixing attachment for at least three minutes.

Application of the product

Apply **Mapecoat TNS Protection** with a roller or by spray.

The complete cycle comprises the application of 1 or 2 coats of **Mapecoat TNS Protection**. Wait 12 hours between each coat in normal temperature and humidity conditions. Protect freshly-painted surfaces from rain. If **Mapecoat TNS Protection** comes into contact with water before it is completely dry, it may not adhere correctly to the

substrate and the final finish may not be acceptable.

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

Do not apply **Mapecoat TNS Protection** if it is about to rain or in windy weather.

Do not apply **Mapecoat TNS Protection** on damp or wet surfaces otherwise it may not adhere correctly.

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 Protection** with water before the product dries.

CONSUMPTION

Consumption is heavily influenced by the roughness of the substrate and the application method used. Consumption is approximately 0.1-0.2 kg/m² if applied on even substrates with a roller or by spray (for 1 to 2 coats of finish).

PACKAGING

Mapecoat TNS Protection is supplied in 6 kg plastic tubs.

STORAGE

12 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

Mapecoat TNS Protection component A is not considered dangerous according to the current regulation regarding the classification of mixtures.

Mapecoat TNS Protection component B is irritant for the eyes and skin, it is harmful if inhaled and may irritate the respiratory tract. Furthermore, it may cause sensitization when in contact with the skin of those subjects sensitive to isocyanates.

When applying the product wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin wash immediately with plenty of water and seek medical attention. It is recommended to work in well-ventilated areas. If there is insufficient ventilation wear a face mask with filter.

Furthermore, **Mapecoat TNS Protection** component B is dangerous for aquatic life.

Do not dispose of it in the environment. For further and complete information about the safe use of our product please refer to the latest version of our 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**



**Mapecoat TNS
Protection**



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