

Mapecoat TNS Base Coat Binder [NA]

Fast-Set, Acrylic, Basecoat Binder



NORTH AMERICA [NA]

DESCRIPTION

Mapecoat™ TNS Base Coat Binder [NA] is a flexible, fast-set, 100%-acrylic latex compound for indoor and outdoor surfaces, used as a basecoat to prepare asphalt and pre-treated concrete surfaces before applying additional *Mapecoat TNS* products. *Mapecoat TNS Base Coat Binder* [NA] is ideal for covering small imperfections on the substrate and for promoting a strong bond. *Mapecoat TNS Base Coat Binder* [NA] is used with *Mapecoat TNS* system products to form durable and comfortable playing surfaces.

FEATURES AND BENEFITS

- Ideal for covering small imperfections on the substrate
- Its high acrylic polymer content allows the contractor to add sand to match the existing conditions of the court surface.
- Superior elongation and flexibility
- Environmentally friendly

WHERE TO USE

- Basecoat for indoor and outdoor surfaces to prepare asphalt and pre-treated concrete surfaces before applying additional *Mapecoat TNS* products

- Basecoat over pre-treated existing acrylic or urethane surfaces before applying additional *Mapecoat TNS* products

LIMITATIONS

- Concrete floors must be completely cured (at least 28 days) and free from hydrostatic pressure and alkaline conditions.
- Do not install when the moisture vapor emission rate (MVER) of the concrete substrate exceeds 8 lbs. per 1,000 sq. ft. (3.63 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity of the concrete substrate exceeds 85% (ASTM F2170).
- Do not apply when rain is imminent.
- Do not apply over damp or wet surfaces.
- Apply only when the surface temperature is between 50°F and 140°F (10°C and 60°C).
- Do not apply if the ambient temperature is lower than 50°F (10°C).
- Do not apply if the level of ambient humidity is higher than 85%.
- Do not apply directly on concrete. Only apply after treating the surface with a coat of *Mapecoat TNS Primer EPW*.

SUITABLE SUBSTRATES

- Cured concrete
- Cured asphalt (in 15 to 20 sunshine days at above 73°F or 23°C)

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- For base construction and paving substrate specifications, refer to the American Sport Builders Association (ASBA), United States Tennis Association (USTA), International Tennis Federation (ITF), National Asphalt Pavement Association (NAPA) and American Concrete Institute (ACI) guidelines.
- All concrete substrates must be primed with *Mapecoat TNS Primer EPW*.
- The 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 substance or condition that may prevent or reduce adhesion.
- All defects (potholes, popouts and other large defects) must be leveled and treated accordingly before *Mapecoat TNS Base Coat Binder [NA]* is applied.

PRODUCT PREPARATION

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- *Mapecoat TNS Base Coat Binder [NA]* should be mixed with 50- to 60-mesh sand. Refer to the Mixing Instructions chart below for the recommended amounts of sand.



- The use of a low-speed mechanical mixer is recommended.
- *Mapecoat TNS Base Coat Binder* [NA] with sand mixture must be diluted with water up to 20% according to the application method used. The mixture should be stirred until it reaches a homogeneous consistency. It is important to keep the mixture homogeneous by occasional remixing during the application process.

PRODUCT APPLICATION

- Apply *Mapecoat TNS Base Coat Binder* [NA] with a flexible rubber squeegee (50 or 70 durometers).

DRYING TIME

- 2 to 3 hours at 73°F (23°C) and 50% relative humidity
- Low temperatures and high humidity will extend drying time.

CLEANING

- Clean tools with water while the product is still fresh/wet.

PACKAGING

- *Mapecoat TNS Base Coat Binder* [NA] is available in pails measuring 5 U.S. gals. (18.9 L) and drums measuring 30 U.S. gals. (114 L) and 55 U.S. gals. (208 L).

PROTECT FROM FREEZING.

Product Performance Properties

Laboratory Tests	Results
Density	10.2 lbs./gal. (1.22 kg/L)
Tensile strength – ASTM 2370	
After 7 days at +73°F (23°C)	190 psi (1.31 N/mm ²)
Elongation at failure – ASTM 2370	
After 7 days at +73°F (23°C)	350%
VOCs (Rule #1113 of California's SCAQMD)	Maximum < 100 g per L
Drying time	2 to 3 hours at 73°F (23°C) and 50% relative humidity. Note that low temperatures and high humidity will extend drying time.

Shelf Life and Product Characteristics before mixing

Shelf life	2 years when stored in dry conditions in original, unopened packaging at 73°F (23°C)
Physical state	Thick liquid

Mixing Ratios per Coat

Product Amount	Water Amount	Sand Amount
5 U.S. gals. or 18.9 L (50 lbs. or 22.7 kg)	0.5 to 1 U.S. gal. (1.89 to 3.79 L)	45 to 55 lbs. (20.4 to 24.9 kg)
30 U.S. gals. or 114 L (287 lbs. or 130 kg)	6 to 7 U.S. gals. (22.7 to 26.5 L)	300 to 400 lbs. (136 to 181 kg)
55 U.S. gals. or 208 L (526 lbs. or 239 kg)	11 to 13 U.S. gals. (41.6 to 49.2 L)	700 to 800 lbs. (318 to 363 kg)

Approximate Coverage (undiluted)*

Number of coats	Coverage in sq. ft. per U.S. gal.	Coverage in sq. yd. per U.S. gal.	Coverage in m ² per L
First coat	120 to 130	13.3 to 14.4	2.9 to 3.1
Second coat	140 to 150	15.5 to 16.6	3.4 to 3.6

*Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and application techniques.

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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 nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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For the most current product data and BEST-BACKEDSM warranty information,
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