



MapecoatTM TNS Finish 1^{NA}

**Premium, Acrylic, Textured
Top Coating Certified as ITF 1**



FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapecoat TNS Finish 1 [NA] is a flexible, acrylic topcoat certified by the International Tennis Federation (ITF). It is used on indoor and outdoor surfaces for tennis, pickleball and basketball courts as well as for multipurpose areas. *Mapecoat TNS Finish 1 [NA]* is combined with *Mapecoat TNS* system products to form durable and comfortable playing surfaces.

FEATURES AND BENEFITS

- Certified with an ITF court pace of 1
- Just add water.
- ColorMapTM System Technology enables unlimited custom colors upon request.
- Superior color-hiding coverage
- Superior elongation and flexibility
- Environmentally friendly

WHERE TO USE

- As a finish coat for indoor and outdoor applications for *Mapecoat TNS* systems (Professional, Cushion, Reinforced and Comfort)
- As a finish coat to renew existing acrylic or urethane surfaces

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 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 130°F (10°C and 54°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%.

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*.

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- 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 Finish 1* [NA] is applied.

PRODUCT PREPARATION

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

- *Mapecoat TNS Finish 1* [NA] must be diluted with water up to 20% according to the application method used. The use of a low-speed mechanical mixer is recommended. 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 Finish 1* [NA] with a flexible rubber squeegee (50 or 70 durometers).

DRYING TIME

- 3 to 4 hours at 73°F (23°C) and 50% relative humidity. Low temperatures and high humidity will extend drying time.

CLEANUP

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

PACKAGING

- *Mapecoat TNS Finish 1* [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	12.35 lbs. per U.S. gal. (1.48 g per cm ³)
Taber abrasion test – ASTM D4060	
CS-17 wheels, 1 kg, 1,000 cycles (mass loss)	110 mg
Tensile strength – ASTM D2370	
After 7 days at +73°F (23°C)	48 psi (110%)
VOCs (Rule #1168 of California's SCAQMD)	50 g per L
Change in color after 2,000 hours exposure to a Weather-Ometer (according to ASTM G155, Cycle 1)	
Pink (TNS 27)	$\Delta E < 2.0$
Lilac (TNS 11)	$\Delta E < 2.0$
Violet (TNS 12)	$\Delta E < 1.5$
Miami Purple (TNS 31)	$\Delta E < 0.5$
Light Gray (TNS 1)	$\Delta E < 0.5$
Dark Gray (TNS 2)	$\Delta E < 0.5$
Black (TNS 25)	$\Delta E < 1.0$
Arena Yellow (TNS 34)	$\Delta E < 1.5$
Sunshine Yellow (TNS 4)	$\Delta E < 0.5$
Ochre (TNS 5)	$\Delta E < 0.5$
Canyon Brown (TNS 26)	$\Delta E < 1.5$
Brown (TNS 6)	$\Delta E < 0.5$
Orange (TNS 9)	$\Delta E < 1.0$
Swiss Red (TNS 24)	$\Delta E < 1.5$
Light Red (TNS 23)	$\Delta E < 1.0$
Red (TNS 10)	$\Delta E < 1.5$
Paris Red (TNS 32)	$\Delta E < 0.5$
Rio Green (TNS 33)	$\Delta E < 2.0$
Dark Green (TNS 20)	$\Delta E < 0.5$
London Green (TNS 30)	$\Delta E < 1.0$
Forest Green (TNS 21)	$\Delta E < 1.0$
White (TNS 0)	$\Delta E < 1.0$
Light Blue (TNS 14)	$\Delta E < 2.0$
Sea Blue (TNS 15)	$\Delta E < 1.5$
Melbourne Blue (TNS 28)	$\Delta E < 1.5$
Dark Blue (TNS 16)	$\Delta E < 2.0$
Sydney Blue (TNS 35)	$\Delta E < 2.0$
Night Blue (TNS 22)	$\Delta E < 1.0$
New York Blue (TNS 29)	$\Delta E < 0.5$

Shelf Life and Product Characteristics before mixing

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

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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
1st coat	120 to 130	13.3 to 14.4	2.9 to 3.2
2nd 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 technique used.

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).

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.**

We proudly support the following industry organizations:



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