

Mapecoat TNS CB [NA]

Acrylic Court Patch Binder

NORTH AMERICA [NA]

DESCRIPTION

Mapecoat™ TNS CB [NA] is a high-strength, acrylic polymer admixture used to enhance the flexibility and adhesion of fast-drying cementitious repair patches. It is specially formulated for filling and leveling depressions up to 3/4" (19 mm) deep on concrete and asphalt sports surfaces before installation of other *Mapecoat TNS* products.

FEATURES AND BENEFITS

- Optimizes bond to existing concrete substrates
- Levels and finishes concrete and asphalt sports surfaces
- Can be applied at up to 3/4" (19 mm) in thickness
- Improves resistance to abrasion and freeze/thaw cycles

WHERE TO USE

- On indoor and outdoor courts
- For patching depressions on concrete and asphalt substrates up to 3/4" (19 mm) deep
- For leveling concrete and asphalt substrates

LIMITATIONS

- Do not apply if rain or ambient temperatures below 50°F (10°C) are expected within 24 hours.
- Do not apply over damp or wet surfaces.
- Do not install in areas with known hydrostatic moisture, osmotic blistering or alkali silica reaction.

- Do not add water.
- Do not apply if the surface temperature is lower than 50°F (10°C) or greater than 130°F (54°C). Allow for extra curing time for temperatures below 70°F (21°C).
- Do not expose to traffic or rolling loads for at least 24 hours.
- Do not apply products containing solvents on *Mapecoat TNS CB* [NA].

SUITABLE SUBSTRATES

- Fully cured concrete at least 28 days old
- Asphalt that has been exposed to at least 15 sunshine days at above 73°F (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 guidelines from the American Sports Builders Association (ASBA), United States Tennis Association (USTA), International Tennis Federation (ITF), National Asphalt Pavement Association (NAPA) and American Concrete Institute (ACI).
- All substrates must be structurally sound, dry, solid and stable.
- Substrates 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 might affect proper bonding of the product, resulting in possible cracking and altered product performance.

Note: Patches must be allowed to fully cure before application of the next coating. If coatings and other decorative toppings are installed before *Mapecoat TNS CB* [NA] has fully cured, blistering or another failure of the coating/topping may result.

MIXING

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

1. The amount of *Mapecoat TNS CB* [NA] needed for the mixture depends on the ratio mix, the desired strength, desired workability and temperature/humidity. The standard recommendation for mixture components is:
 - Dry silica sand, #60 to #80 mesh: 100 lbs. (45.4 kg)
 - Type 1 Portland cement: 1 to 2 U.S. gals. (3.79 to 7.57 L)
 - *Mapecoat TNS CB* [NA]: 2.5 to 2.75 U.S. gals. (9.46 to 10.4 L)
2. Premix the sand and Portland cement before adding *Mapecoat TNS CB* [NA]. Mix until achieving a homogenous mix.
3. Do not mix more material than can be applied in 15 to 20 minutes, and do not add water.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use a trowel's flat edge or a straight edge to apply a layer of *Mapecoat TNS CB* [NA] into depressions in 1/8" (3 mm) lifts to 3/4" (19 mm) in total depth.
2. Smooth to a finish with a trowel or squeegee. The patch edges should be feathered to allow a smooth transition.
3. Patches should be allowed to cure for 24 hours before application of the next coating. Deep patches may require additional cure time.

CURING

- Protect *Mapecoat TNS CB* [NA] from high wind, frost and direct sunlight during curing.

CLEANING

- Clean tools with water immediately while the product is still fresh/wet. Any dried or cured material must be removed mechanically.

Product Performance Properties

Laboratory Tests	Results
Density	1.07 g per cm ³

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Packaging

Size
Plastic pail: 5 U.S. gals. (18.9 L)
Plastic drum: 30 U.S. gals. (114 L)
Steel drum: 55 U.S. gals. (208 L)

Approximate Coverage*

per 1 U.S. gal. (3.79 L)

Thickness	Coverage
1/8" (3 mm) patch	55 to 65 sq. ft. (5.11 to 6.04 m ²)
1/4" (6 mm) patch	25 to 35 sq. ft. (2.32 to 3.25 m ²)
3/4" (19 mm) patch	10 to 15 sq. ft. (0.93 to 1.39 m ²)

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

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for floor covering installation systems**

** At www.mapei.com

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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