



To: City of Mobile Bidding Website

From: Jody Russell
City of Mobile Architectural Engineering Department

Re: Copeland-Cox Tennis Center
Tennis Court Resurfacing
Project #PR-010-23

&

Medal of Honor Park
Tennis Court Resurfacing
Project #PR-001B-23

Date: August 4, 2025

This Addendum forms a part of, and modifies, the Bidding Documents for the above referenced project, dated July 16, 2025. Acknowledge the receipt of this Addendum No. 3 and all subsequent Addenda, if any, in the space provided on the Bid Form. Failure to do so may subject Bid to disqualification.

General:

Clarifications:

Item #1. Acrylic Resurfacing is not to be included in the base bid or alternates for the project. It is to be included solely as a unit price separate from the asphalt repair.

Drawings: N/A

RFI's:

Question 1. Attached is the technical specs of the Mapei Sports Surfacing product we are requesting for approval of an equal or better.

Answer: The attached surfacing product is an acceptable substitute to be included in the options for acrylic resurfacing. Technical specs must meet all requirements attached in the bid documents.

ATTACHMENTS:

Mapei Technical Specifications Section 32 18 23.53

END OF ADDENDUM NO. 3



**TECHNICAL SPECIFICATIONS FOR TENNIS COURT, PICKLEBALL &
RECREATIONAL SPORT SURFACING, SECTION 32 18 23 53**

1: GENERAL DESCRIPTION

- A. MAPEI SPORTS FLOORING DIVISION provides this technical specification as a guideline only. Consultation with a professional architect or engineer is always recommended for a project-specific specification. **Mapecoat TNS** is a multilayered acrylic-based system(s) designed to create durable, aesthetically pleasing, and consistent playing surfaces that can be tailored to the desired speed and ball bounce.

SECTION 02790 (32 18 23.53)

**TENNIS COURT, PICKLEBALL & RECREATIONAL SPORTS SURFACING FOR ASPHALT
SURFACES SYSTEM**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Tennis Court & Recreational Sports Surfacing for Asphalt and Concrete Surfaces Systems.

A.2 RELATED REQUIREMENTS

- A. Section 02975 (32 01 17.63) – Tennis Court Crack Repair System: Repairing cracks in asphalt tennis courts.
- B. Section 03300 (03 30 00) – Cast-in-Place Concrete.
- C. Section 03400 (03 40 00) – Precast Concrete.

1.3 REFERENCE STANDARDS

- A. American Sports Builders Association (ASBA).
- B. United States Tennis Association (USTA) Rules of Tennis.
- C. International Tennis Federation (ITF).
- D. National Asphalt Pavement Association (NAPA).

1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.

- B. Product Data: Submit manufacturer's product data, including surface and crack preparation and application instructions.
- C. Samples: Submit manufacturer's color samples of color coating.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Manufacturer's Project References: Submit manufacturer's list of successfully completed asphalt tennis court surface color coating system projects, including project name, location, and date of application.
- F. Applicator's Project References: Submit applicator's list of successfully completed asphalt or concrete tennis court surface color coating system projects, including project name, location, type, and quantity of color coating system applied, and date of application.
- G. Warranty Documentation: Submit manufacturer's standard warranty.
- H. Authorized Installer Certificate: Submit manufacturer's authorized installer certificate.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 1. Manufacturer must be ISO certified.
 2. Manufacturer must supply Taber Abrasion Resistance, Tensile Strength, and 2,000 hour ASTM G155 QUV weathering data for color coatings.
 3. Manufacturer regularly engaged, for past 5 years, in manufacture of asphalt or concrete tennis court surface color coating systems of similar type to that specified.
 4. United States owned company.
 5. Member: ASBA.
 6. Manufacturer has surfaces that are classified by the International Tennis Federation's (ITF's) pace classification program.
- B. Applicator's Qualifications:
 1. Applicator regularly engaged, for past 3 years, in application of tennis court surface color coating systems of similar type to that specified.
 2. Employ persons trained for application of tennis court surface color coating systems.
 3. Applicator must be authorized installer of the surfacing brand used.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

- B. Storage and Handling Requirements:
1. Store and handle materials in accordance with manufacturer's instructions.
 2. Keep materials in manufacturer's original, unopened containers and packaging until application.
 3. Store materials in clean, dry area indoors.
 4. Store materials out of direct sunlight.
 5. Keep materials from freezing.
 6. Protect materials during storage, handling, and application to prevent contamination or damage.
 7. Close containers when not in use.
 8. Retain manufacturer batch codes on each container and application dates, for warranty purposes.

1.7 AMBIENT CONDITIONS

- A. Do not apply asphalt or concrete tennis court surface color coating system when air or surface temperatures are below 50°F (10°C) during application or within 24 hours after application.
- B. Do not apply asphalt or concrete tennis court surface color coating system when rain is expected during application or within 24 hours after application.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: MAPEI Corporation, 1144 E. Newport Center Rd., Deerfield Beach, FL 33442, USA. Toll-Free Tel.: 1-800-992-6273; Fax: 954-246-8805; Email: TechServiceRequests@mapei.com; Web: www.mapei.com.
- B. Acceptable Manufacturer: MAPEI Inc. Canada, 2900 Francis-Hughes, Laval, QC, H7L 3J5, Canada; Toll-Free Tel.: 1-800-361-9309; Fax: 450-901-0196; Email: TServicesCA@mapei.com; Web: www.mapei.com.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 – Product Requirements.

All other brands must be pre-approved by the architect/owner, 7 days prior to the bid date. If submitting another brand, bidder must furnish copies of all submittal documents under section 1.4.

2.2 MATERIALS

- A. Asphalt Tennis Court Surface Color Coating System: Mapei Tennis Courts & Recreational Sports Surfacing Systems.

1. SURFACE PREPARATION:

- i. **Mapecoat TNS CB:** High-strength acrylic polymer admixture used to enhance flexibility and adhesion of fast-drying cementitious repair patches.

2. BASE COAT

- i. **Mapecoat TNS Base Coat Binder Acrylic Resurfacer:** Interior and exterior fast-set flexible acrylic base coating with good filling capacity when mixed with appropriately graded silica sand used to even out asphalt substrates prior to topcoats.

3. TOPCOATS

- i. **Mapecoat TNS Finish 3** Premium acrylic latex compound with pre-mixed graded silica sand to achieve a category 3 pace rating from the International Tennis Federation (ITF) for indoor and outdoor sport surfaces as a topcoat. (ITF speed rating certified).

4. GAME LINES

- i. **Mapecoat TNS Line Seal:** Fast-setting, ready-to-use premium, acrylic, transparent paint that seals the edges of the masking tape before the application of Mapecoat TNS Line or Mapecoat TNS Line Tex.
- ii. **Mapecoat TNS Line Tex:** Fast-setting, ready-to-use premium acrylic, textured paint for marking sport courts and urban areas for all Mapecoat TNS system surfaces.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Inspect asphalt substrate per ASBA guidelines for proper slopes, drainage and soundness of the substrate and surface. If there are known drainage problems, it is ideal to identify and mark them after a hard rain, prior to resurfacing.

3.2 PROJECT CONDITIONS, LIMITATIONS AND OVERSIGHTS

- A. Asphalt substrates shall be allowed to cure properly 14 to 21 days minimum depending on atmospheric conditions.
- B. The substrate shall be clean and dry before coatings are applied. Substrate surface should be

- free of oil, grease, dust, dirt and any other foreign material that negatively affect bonding.
- C. Do not apply unless surface temperatures are 50°F (10°C) and rising.
 - D. Do not apply when rain is imminent or if extremely high humidity will prevent drying.
 - E. Do not apply if the surface temperature is above 140°F (60°C). Water used on the project shall be fresh, potable and as cold as possible in hot weather conditions.

3.3 PREPARATION

A. New or existing asphalt surfaces:

Clean the substrate surface. The substrate surface shall be free of grease, oil, dust, dirt and any other foreign matter that could inhibit bond before starting the work. Depending on the condition of the surface, two methods are typical:

1. If necessary, pressure-wash as needed (not greater than 1,500 psi).
2. If necessary, flood the surface. Any depressions holding water deep enough to cover the thickness of a nickel coin (1/16" or 1.6 mm) shall be outlined and leveled to match existing grades with a product below per TDS directions.

3.4 PLAYING SURFACE SYSTEM APPLICATION

Note: The contractor should provide the inspector or owner's representative mixing instructions for all materials.

- A. Patching: Any area that holds water deeper than 1/16" should be outlined and patched, and all cracks should be cleaned and patched using **Mapecoat TNS CB**. Patching mix shall consist of **Mapecoat TNS CB**, 50-60 mesh sand, and Type 1 Portland cement mixed according to the **Mapecoat TNS CB** TDS.
- B. Apply two (2) coats of **Mapecoat TNS Base Coat Binder** Acrylic Resurfacer. This concentrated material should be mixed in the following ratio: 18 gallons of **Mapecoat TNS Case Coat Binder**, 225 lbs 40-60 mesh subangular sand, 9-13 gallons clean potable water. Note that for best mixing it is best to thoroughly mix in the sand prior to dilution. Allow to dry completely before the next application. Concentrated application rate averages 130-180 square feet per gallon (0.05-0.07 gallons per sqyd) per coat, depending on surface texture.

Inspect the entire surface. All defects should be scraped and/or machine-sanded to remove any ridges. Blow and remove any loose debris.

- C. Using a rubber squeegee, apply two (2) coats of **Mapecoat TNS Finish 3** diluted with up to 30% water. (Colors are pre-determined by owner.) The application rate for **Mapecoat TNS Finish 3** is 120 to 150 square feet per gallon (0.06-0.075 gallons per sqyd) per coat.
 - i. MapeCoat TNS Finish 3 – CPR Medium
** ITF Certified Court Pace Rating**

3.5 APPLICATION OF LINE MARKINGS

- A. Lines shall be carefully measured and marked with chalk in accordance with ASBA and specific sports guidelines. (Note: Do not assume existing lines are measured properly on resurfacing work.)
- B. All lines are to be applied by painting between high-grade masking tape with a brush or roller. No spraying of lines is allowed.
- C. Prime masked line with one coat of **Mapecoat TNS Line Seal**. Allow to dry completely before continuing. Application rate is 1 gallon (3.79 L) per tennis court.
- D. Paint lines with **Mapecoat TNS Line Tex** paint. Application rate is 1 gallon (3.79 L) per tennis court. Allow application to dry.
- E. Remove masking tape immediately when dry. Leaving it in place too long could leave residue on the court surface.

3.6 PROTECTION

Allow a minimum of 24 to 72 hours drying time for outdoor courts before opening for play. Indoor courts will take longer to dry and cure and should dry within a minimum of 7 days before play is allowed, depending on the atmospheric conditions in the building.

END OF SECTION

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 Safety Data Sheet (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-durabilite@mapei.com.

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.**

CONTACT INFORMATION

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1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

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Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

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Customer Service

1-800-42-MAPEI (1-800-426-2734)

Edition Date: April 26, 2024 MK 3000492 (24-1562)

For the most current product data and BEST-BACKEDSM warranty information, visit www.mapei.com.

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Mapecoat TNS Base Coat BinderTM NA

**Fast-Set, Acrylic,
Basecoat Binder**



DESCRIPTION

Mapecoat TNS Base Coat Binder 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* is ideal for covering small imperfections on the substrate and for promoting a strong bond. *Mapecoat TNS Base Coat Binder* 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 or existing substrates. It may only be applied 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.

Mapecoat TNS Base Coat Binder

NA

- 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* is applied.

PRODUCT PREPARATION

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

- *Mapecoat TNS Base Coat Binder* 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* 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* 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* 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 #1168 of California's SCAQMD)	50 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 Instructions for 55-Gal. or 208-L (526-Lb. or 239-Kg) Drum

Coat	Water Amount	Sand Amount
First coat	11 to 13 U.S. gals. (41.6 to 49.2 L)	800 to 900 lbs. (363 to 408 kg)
Second coat	11 to 13 U.S. gals. (41.6 to 49.2 L)	700 to 800 lbs. (318 to 363 kg)

Mixing Instructions for 30-Gal. or 114-L (287-Lb. or 130-Kg) Drum

Coat	Water Amount	Sand Amount
First coat	6 to 7 U.S. gals. (22.7 to 26.5 L)	400 to 500 lbs. (181 to 227 kg)
Second coat	6 to 7 U.S. gals. (22.7 to 26.5 L)	300 to 400 lbs. (136 to 181 kg)

Mixing Instructions for 5-Gal. or 18.9-L (50.0-Lb. or 22.7-Kg) Pail

Coat	Water Amount	Sand Amount
First coat	0.5 to 1 U.S. gal. (1.89 to 3.79 L)	55 to 65 lbs. (24.9 to 29.5 kg)
Second coat	0.5 to 1 U.S. gal. (1.89 to 3.79 L)	45 to 55 lbs. (20.4 to 24.9 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.

Mapecoat TNS
Base Coat Binder NA

Mapecoat TNS Base Coat Binder

NA

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).

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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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1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Edition Date: January 13, 2022

MK 3000441 (21-2865)

Mapecoat TNS Finish 3 [NA]

Premium, Acrylic, Textured Top Coating Certified as ITF 3



NORTH AMERICA [NA]

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapecoat™ TNS Finish 3 [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 3 [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 3
- Just add water.
- ColorMap™ 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, Reinforced, Comfort and Comfort Elite)
- As a finish coat to renew existing acrylic 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 (at least 28 days)
- 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 Finish 3* [NA] is applied.

PRODUCT PREPARATION

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

- *Mapecoat TNS Finish 3* [NA] must be diluted with water up to 30% 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 3* [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 3* [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	12.52 lbs. per U.S. gal. (1.50 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)	60 psi (130%)
VOCs (Rule #1113 of California's SCAQMD)	< 100 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

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.

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.

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CONTACT INFORMATION

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Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Edition Date: June 17, 2024 MK 3000456 (24-1895)

For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.

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MapecoatTM TNS Line Seal^{NA}

**Premium, Acrylic,
Line Paint Sealant**



DESCRIPTION

Mapecoat TNS Line Seal is a premium, acrylic, transparent sealant for the edges of the masking tape before the application of *Mapecoat TNS Line* or *Mapecoat TNS Line Tex* line paint.

FEATURES AND BENEFITS

- Ready to use
- Fast-set acrylic sealant

WHERE TO USE

- To seal the masking tape before applying the line paint *Mapecoat TNS Line* or *Mapecoat TNS Line Tex*

LIMITATIONS

- Concrete substrates must be completely cured (at least 28 days), free from hydrostatic pressure and alkaline conditions, and pre-treated with *Mapecoat TNS Primer EPW*.
- Asphalt substrate must be completely cured (at least 15 to 20 sunshine days above 73°F or 23°C).
- Do not install when the moisture vapor emission rate (MVER) 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 concrete slabs 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 humidity is higher than 85%.

SURFACE PREPARATION

- Standard requirements for the substrate (such as asphalt) must adhere to American Sports Builders Association (ASBA) guidelines.
- The substrate must be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

MIXING

- This product is ready to use. Shake the container before opening.

PRODUCT APPLICATION

- Apply *Mapecoat TNS Line Seal* with a roller or brush.

CLEANUP

- Clean tools with water while the product is still fresh/wet.
- Clean with mineral spirits once the product has dried. Use caution with mineral spirits, which may be harmful to some materials.

Mapecoat TNS Line Seal



Product Performance Properties

Laboratory Tests	Results
Appearance – ASTM D523	Flat < 5@60
Weathering – ASTM D6695 (Xenon Arc: 10,000 hours)	Passed
Abrasion resistance – ASTM D968 (at 3,000 L)	Passed
Elongation (at break) at 73°F (23°C) and 50% relative humidity – ASTM D638	650%
Tensile strength – ASTM D638	130 psi (0.90 MPa)
Mandrel bend test – ASTM D522	Passed (no cracking)
VOCs (Rule #1113 of California's SCAQMD)	≤ 50 g per L

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	Store at 50°F to 95°F (10°C to 35°C).
Drying time	30 to 60 minutes at 73°F (23°C) and 50% relative humidity

Approximate Coverage* for standard tennis court lines

Coverage
480 linear ft. per U.S. gal.
160 linear yds. per U.S. gal.
38.5 linear m per L

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

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

Packaging

Size
Jug: 1 U.S. gal. (3.79 L)

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).

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We proudly support the following industry organizations:



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Customer Service
1-800-42-MAPEI (1-800-426-2734)

Services in Mexico
0-1-800-MX-MAPEI (0-1-800-696-2734)
Edition Date: June 30, 2021
MK 3000988 (21-2126)

For the most current product data and BEST-BACKED™ warranty information, visit www.mapei.com.

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MapecoatTM TNS Line Tex

**Premium, Acrylic
Line Paint Fortified
with Fine Sand**



NA

FOR
PROFESSIONAL
USE ONLY

DESCRIPTION

Mapecoat TNS Line Tex is a premium, acrylic paint fortified with fine sand for marking sport courts and urban areas for all *Mapecoat TNS* system surfaces.

FEATURES AND BENEFITS

- Ready to use
- Fast-set acrylic paint
- Fine sand component gives the same texture as *Mapecoat TNS Finish* top coating
- Available in white and 29 standard colors

WHERE TO USE

- As line markings for tennis courts, multisport courts and multipurpose areas

LIMITATIONS

- Concrete substrates must be completely cured (at least 28 days), free from hydrostatic pressure and alkaline conditions, and pre-treated with *Mapecoat TNS Primer EPW*.
- Asphalt substrate must be completely cured (at least 15 to 20 sunshine days above 73°F or 23°C).
- Do not install when the moisture vapor emission rate (MVER) 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 concrete slabs 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 humidity is higher than 85%.

SURFACE PREPARATION

- Standard requirements for the substrate (such as asphalt) must adhere to American Sports Builders Association (ASBA) guidelines.
- The substrate must be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

MIXING

- This product is ready to use. Shake the container before opening.

PRODUCT APPLICATION

- Apply *Mapecoat TNS Line Tex* with a roller or brush.

CLEANUP

- Clean tools with water while the product is still fresh/wet.
- Clean with mineral spirits once the product has dried. Use caution with minerals spirits, which may be harmful to some materials.

Product Performance Properties

Laboratory Tests	Results
Appearance – ASTM D523	Flat < 5@60
Weathering – ASTM D6695 (Xenon Arc: 10,000 hours)	Passed
Abrasion resistance – ASTM D968 (at 3,000 L)	Passed
Elongation (at break) at 73°F (23°C) and 50% relative humidity – ASTM D638	650%
Tensile strength – ASTM D638	130 psi (0,90 MPa)
Mandrel bend test – ASTM D522	Passed (no cracking)
VOCs (Rule #1113 of California's SCAQMD)	≤ 50 g per L

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	Store at 50°F to 95°F (10°C to 35°C).
Colors	Available in white and 29 standard colors. Custom colors can be provided upon request.
Drying time	30 to 60 minutes at 73°F (23°C) and 50% relative humidity

Approximate Coverage* for standard tennis court lines

Coverage
480 linear feet per U.S. gal.
160 linear yards per U.S. gal.
38.5 linear meters per L

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

Packaging

Size
Jug: 1 U.S. gal. (3.79 L)
Pail: 1 U.S. gal. (3.79 L)

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 meets the health and well-being requirements of product certification programs, contact the MAPEI Sustainability Team at 1-800-992-6273.

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Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Edition Date: July 21, 2019

MK 3000989 (19-1925)

For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

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