



MAPEFLOOR FINISH 59 W TRP
Two-Component, Clear, Matte, Aliphatic Polyurethane Coating

SECTION 03 35 00
Concrete Finishing

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. A high-performance finish on general-service resinous Mapefloor systems flooring and Ultratop systems.

1.2 RELATED SECTIONS

- A. Section 03 30 00 – Cast-in-Place Concrete.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Verification Samples: For each finish product specified, two samples, minimum size 6" (150 mm) square representing actual product, color and patterns.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years' experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 years' experience installing similar products.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.



1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Product Performance:

Abrasion resistance – ASTM D4060 CS17 1,000 cycles, 2.2 lbs. (1,000 g)	25 mg
Solids content	36.23%
Viscosity (mixed)	120 cps
VOC content	85 g per L

- B. Acceptable Manufacturer:

MAPEI North America

1144 E. Newport Center Dr.; Deerfield Beach, FL 33442
Toll-Free for CRS Technical Services: Tel. 888-365-0614

Email: CRS@mapei.com

Web: www.mapei.com

- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- D. Substitutions: Not permitted.

2.2 CONCRETE FINISHING

- A. A two-component, aliphatic polyurethane coating in water dispersion with a clear or colored matte finish.
 - 1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Mapefloor Finish 59 W TRP.

2.3 MIXES

- A. General: Mix products in clean containers according to manufacturer's written instructions.
 - 1. Do not add water, thinners or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovels or trowels as units of measure.



3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Properly prepared concrete, masonry and ceramic. The surface to be treated must be sound, stable and clean.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. New resin coatings: Surface must be hard and dry and have been applied within 24 hours of applying Mapefloor Finish 59 W TRP [NA]. If the recoat time has passed, the existing topcoat surface must be mechanically abraded, vacuumed with a brush attachment and wiped with a lint-free, non-oily, solvent-dampened cloth such as an acetone or MEK, before Mapefloor Finish 59 W TRP [NA] can be applied.
- B. Old resin coatings: Old resin coatings must be thoroughly clean and free of any traces of oil, grease or any contaminant that may reduce or prevent proper adhesion. Abrasion of the entire surface must be done to guarantee sufficient adhesion between product and the substrate.

Note: MAPEI strongly recommends conducting a trial application to determine compatibility and acceptable performance of Mapefloor Finish 59 W TRP [NA] with the existing surfaces. Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

3.3 MIXING

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

- A. To ensure that all solids are evenly dispersed, mix Part A of Mapefloor Finish 59 W TRP mechanically for about 1 minute.
- B. Pour all the Part B hardener into the Part A container and mix thoroughly to a smooth, homogeneous consistency.
- C. Do not mix at high speeds or overmix, which can trap air within the mixed material. Use an adequate mixing paddle with a low-speed drill mixer (at 300 to 400 rpm).
- D. During the mixing process, scrape down the sides and bottom of the container to completely mix all of the components.
- E. Apply the mixed Mapefloor Finish 59 W TRP within the pot life of 90 minutes. Higher ambient and substrate temperatures will reduce the pot life in the mix while lower temperatures will increase its pot life as well as increase the viscosity and affect coverage.

3.4. INSTALLATION

Read all installation instructions thoroughly before installation. Contact MAPEI's Technical Services Department for more detailed recommendations.

- A. Apply two coats at 2 to 4 mils (WFT) of Mapefloor Finish 59 W TRP with a short-piled lint-free



roller (6 mm).

- B. When applying with a roller, roll in opposite directions with each successive coat.
- C. If the time between each coat exceeds 24 hours at 68°F (20°C), lightly sand the surface of the first coat, vacuum with a brush attachment and wipe with a lint-free, non-oily, solvent-dampened cloth before applying Mapefloor Finish 59 W TRP [NA]. Waiting times are shorter at higher temperatures and longer at lower temperatures.
- D. Make sure that application areas are well ventilated with a good amount of air exchange to help the product dry. Do not apply the product at a rate of more than 0.22 lbs. per 10.76 sq. ft. (100 g per m²) in a single coat. Higher rates may cause defects in the coating.

END OF SECTION