



MAPEFLOOR FINISH 58 W
Two-Component, Clear, Matte, Aliphatic Polyurethane Coating

SECTION 03 35 00
Concrete Finishing

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. An aliphatic polyurethane coating in water dispersion with a clear or colored matte finish.

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:

Tensile strength – ASTM D638	302.71 psi (2.9 MPa)
Elongation – ASTM D638	31.46%
Solids content	~ 40% (mixed)
Viscosity (mixed)	~ 300 cps
VOC content	< 72 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 58 W.

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. Concrete surface must be clean and free of loose particles, efflorescence, paints, tars, grease, asphaltic materials, bond breakers, curing compounds, wax and any foreign substances that might interfere with the adhesion of Mapefloor Finish 58 W.
- B. Conduct appropriate methods for testing calcium chloride (ASTM F1869) and methods for testing surface moisture content (ASTM F2170). Mapefloor Finish 58 W can be applied when an effective moisture barrier retarder exists under the concrete (for slab on or below grade), and at MVER values at no more than 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) and relative humidity values at no more than 85% with records confirming that the moisture is still dissipating (that is, moisture levels are dropping).

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 58 W 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. Apply the mixed Mapefloor Finish 58 W within the pot life of 4 hours. 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 58 W with a short-piled lint-free roller (6 mm).
- B. When applying with a roller, roll in opposite directions with each successive coat.
- C. Two coats of Mapefloor Finish 58 W are mandatory if a colored version is used. If the time between coats exceeds 24 hours at 68°F (20°C), lightly sand the surface of the first coat, vacuum with a brush and wipe with a lint-free attachment, non-oily, solvent-dampened cloth before applying Mapefloor Finish 58 W.
- D. Make sure that application areas are well ventilated with a good amount of air exchange to help the product dry.

END OF SECTION