

Mapecfloor Finish 56

Two-Component, Clear, Multipurpose, Polyaspartic Resin



DESCRIPTION

Mapecfloor™ Finish 56 is a two-component, clear, high-gloss, polyaspartic resin that is typically used as a UV-resistant primer, grout coat, binder and seal coat for industrial flooring. It is specifically formulated to enhance the adhesion of multi-layer flooring systems. *Mapecfloor Finish 56* is particularly suitable as a clear binder for decorative, multicolored quartz aggregate such as *Mapecfloor DQ* and for flake finishes such as *Mapecflakes™*.

FEATURES AND BENEFITS

- Good chemical and mechanical resistance
- Excellent adhesion to concrete substrates
- Superior aesthetic glossy finish
- Fast cure at low temperatures
- Excellent UV resistance
- Low odor

WHERE TO USE

- For institutional buildings, storage areas, logistical areas, and wet and dry processing areas
- For use in shopping centers, laboratories and clean rooms
- For use in chemical and pharmaceutical industries

SUITABLE SUBSTRATES

- Properly prepared substrates such as concrete cementitious screeds and polymer-modified self-leveling screeds, which must be sound and dry with a compressive strength of at least 3,600 psi (24.8 MPa) and a pull-off strength of at least 200 psi (1.38 MPa).
- Before application of *Mapefloor Finish 56*, determine the substrate's moisture content as well as the relative humidity (RH) and dew point.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All substrates must be structurally sound, stable, clean, and free of any bond-inhibiting or bond-breaking materials such as adhesives, tar, cure-and-seal compounds, curing compounds and mastics.
- Mechanically prepare the surface by engineer-approved methods to obtain an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #3. Construction, expansion, control and isolation joints must be honored through the finished flooring system. To ensure product performance, repair all cracks greater than 1/32" (1 mm) in width and treat joints using engineer-approved methods.
- High spots must be removed by grinding to achieve a level surface.
- Test the concrete substrate using appropriate methods for testing calcium chloride (ASTM F1869) and methods for testing surface moisture content (ASTM F2170), ensuring that it is below 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) or 85% RH.

MIXING

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

1. To ensure that the resin is evenly dispersed, mix Part A of *Mapefloor Finish 56* mechanically for about 1 minute.
2. Pour all the Part B (hardener) into the Part A container and mix thoroughly to a smooth, homogeneous consistency.
3. During the mixing process, scrape down the sides and bottom of the container to completely mix all the components.
4. Apply the mixed *Mapefloor Finish 56* within the pot life indicated in the "Product Performance Properties" chart below.

Note: For best results when using *Mapefloor Finish 56*, ensure that humidity levels are between 50% and 55% and that the ambient temperature is 73°F (23°C) throughout the cycle of pouring and fully curing. Higher humidity levels will result in a shorter working time and pot life. Consult MAPEI's Technical Services Department regarding use of the *Mapefloor Finish 56* outside of these recommendations.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Before application, confirm the substrate's moisture content, RH and temperature in relation to the dew point. See the "Limitations" section below for details.
2. First coat (prime coat): Apply a priming coat of *Mapefloor Finish 56* at 9 to 15 mils with a notched squeegee. Back-roll with a short-pile roller (in a crisscross pattern) without ponding. Broadcast *Mapefloor DQ* or *Mapeflakes* into the *Mapefloor Finish 56* to saturation.
3. Intermediate coat: Apply a priming coat of *Mapefloor Finish 56* at 9 to 15 mils with a notched squeegee. Back-roll with a short-pile roller (in a crisscross pattern) without ponding. Broadcast *Mapefloor DQ* or *Mapeflakes* into the *Mapefloor Finish 56* to saturation.
4. Finishing coat (seal coat): Apply a finishing coat of *Mapefloor Finish 56* at 9 to 15 mils with a notched squeegee and back-roll with a short-pile roller (in a crisscross pattern). Repeat the finishing coat application method if a second coat is required.

PROTECTION AND CURING

- Ensure that *Mapefloor Finish 56* is protected from water and condensation for at least 24 hours after application.
- Ensure that the temperature of the concrete is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point during the application and curing of *Mapefloor Finish 56*.
- After application, maintain surrounding conditions within the recommended ambient and substrate temperatures for at least 72 hours if temperature is as low as 46°F (8°C), or for 24 hours if temperature is as high as 95°F (35°C).
- If corrosive substances come into contact with *Mapefloor Finish 56*, remove them immediately.

CLEANUP

- Clean all tools and equipment with a suitable solvent, such as xylene.
- Hardened or cured material must be mechanically removed.

LIMITATIONS

- Do not apply *Mapefloor Finish 56* on substrates that have not received adequate preparation.
- Do not dilute *Mapefloor Finish 56* with solvents or water.
- Do not apply *Mapefloor Finish 56* on dusty or weak substrates.
- Do not apply *Mapefloor Finish 56* on substrates that have oil, grease or dirt.
- Do not mix partial quantities of the components; otherwise, the product may not perform adequately.
- Do not expose the mixed product to sources of heat.
- The coating may change color if it is exposed to aggressive chemicals. A change of color, however, does not mean that the chemicals have damaged the coating.

- Use *Mapefloor Finish 56* only between the ambient and substrate temperatures of 40°F and 86°F (4°C and 30°C). Mixing and applying the product at temperatures below 65°F (18°C) will result in decreased product workability and slower curing rates.
- Ambient humidity during application and curing should be between 30% and 75%. Low relative ambient humidity may result in slower curing.
- Do not use on exterior, on-grade surfaces.

Product Performance Properties

Laboratory Tests	Results
Viscosity (mixed)	930 cps
Density – ASTM C905	1.08 kg per L
Tensile strength – ASTM D638	4,127 psi (28.5 MPa)
Elongation – ASTM D2370	16%
Solids content	100% by volume
Pull-off strength (substrate failure) – ASTM D7234	462 psi (3.19 MPa)
Surface hardness – ASTM D2240	
24 hours 3 days 7 days 28 days	67 75 75 75
Abrasion resistance – ASTM D4060 CS17/1000 cycles, 2.2 lbs. (1 kg)	34 mg
VOC content (SCAQMD Rule 1113)	< 50 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	38 g per L

Shelf Life and Product Characteristics before mixing

Shelf life	1 year when stored in original, unopened packaging, in a dry area
Storage	Store at between 41°F to 86°F (5°C to 30°C). 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.
Physical state	Part A: Liquid Part B: Liquid
Color	Part A: Clear Part B: Clear
Mixing ratio	Part A : Part B = 3:2 by volume

Application Properties

at 73°F (23°C) and 60% relative humidity

Pot life	< 20 minutes
Time before recoating	< 90 minutes
Ready for light foot traffic	> 4 hours
Ready for heavy traffic	> 8 hours
Full cure	> 5 days

CSI Classification

Resinous Flooring	09 67 23

Approximate Coverage*

for substrate with CSP #3

Wet Film Thickness	Coverage
9 mils	178 sq. ft. per U.S. gal. (4.36 m ² per L)
12 mils	133 sq. ft. per U.S. gal. (3.26 m ² per L)
15 mils	107 sq. ft. per U.S. gal. (2.62 m ² per L)

** Coverage shown is for estimating purposes only and will vary depending on the desired build as well as the profile and porosity of the substrate.*

Packaging

Size	
Mapefloor Finish 56	2.64 U.S. gals. (10 L)
Part A	1.59 U.S. gals. (6 L)
Part B	1.05 U.S. gals. (4 L)

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_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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For the most current product data and BEST-BACKEDSM warranty information,
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