

Mapefloor Finish 630 [NA]

Two-Component, Clear Protective Acrylic Coating
for Floors



NORTH AMERICA [NA]

DESCRIPTION

Mapefloor™ Finish 630 [NA] is a two-component, protective, acrylic filming agent in a water dispersion for floors made from concrete and Ultratop® systems. Mapefloor Finish 630 [NA] provides a high-performance finish on Ultratop systems.

FEATURES AND BENEFITS

- Low odor
- Fast-curing, with a quick turnaround time
- Good UV resistance
- Enables easy surface cleaning and maintenance

WHERE TO USE

- Healthcare facilities
- Commercial and general-service industrial environments
- Department stores
- Government buildings
- Colleges and universities

LIMITATIONS

- Do not apply *Mapecolor Finish 630* [NA] on substrates that have not received adequate preparation.
- Do not dilute *Mapecolor Finish 630* [NA] with solvents.
- Do not apply *Mapecolor Finish 630* [NA] on dusty or weak substrates.
- Do not apply *Mapecolor Finish 630* [NA] 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. If corrosive substances come into contact with *Mapecolor Finish 630* [NA], remove them immediately.
- The minimum and maximum times for waiting and recoating are 6 hours and 24 hours.
- Use only between the ambient and substrate temperatures of 46°F and 95°F (8°C and 35°C).
- Do not use on exterior or on-grade surfaces.
- Ensure that *Mapecolor Finish 630* [NA] 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 *Mapecolor Finish 630* [NA].
- Do not mix partial quantities of Parts A and B.
- When *Mapecolor Finish 630* [NA] will be applied directly to concrete substrates, conduct appropriate methods for testing calcium chloride (ASTM F1869) and methods for testing surface moisture content (ASTM F2170). *Mapecolor Finish 630* [NA] can be applied when an effective moisture vapor retarder exists under the concrete (for slab on or below grade), at MVER values of no more than 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) and at relative humidity values of no more than 85% with records confirming that the moisture is still dissipating (that is, moisture levels are dropping).
- Do not apply in areas when the ambient relative humidity is greater than 75%.

SURFACE PREPARATION

- *Ultratop* surfaces to be treated with *Mapecolor Finish 630* [NA] must be completely hardened.
- Before treating the surface with *Mapecolor Finish 630* [NA], wait at least 48 hours, depending on the temperature and the application thickness.

Note: MAPEI strongly recommends that a trial application is carried out to determine compatibility and acceptable performance of *Mapecolor Finish 630* [NA] with the existing surfaces. Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

PRODUCT APPLICATION

- Apply two coats at 3 to 4 mils in wet film thickness (WFT) of *Mapecolor Finish 630* [NA] with a suitable wax mop, sprayer or short-piled lint-free roller (1/4" or 6 mm).
- When applying with a roller, roll in opposite directions with each successive coat.
- If the time between each coat exceeds 24 hours at 68°F (20°C), the existing topcoat surface must be mechanically abraded, vacuumed with a brush attachment and wiped with a lint-free, non-oily cloth dampened with a solvent – such as an acetone or methyl ethyl ketone (MEK) – before another coat of *Mapecolor Finish 630* [NA] is applied.

- Make sure areas are well ventilated with a good amount of air exchange to help the product dry.
- Ensure the recommended film thickness is achieved and the yields are not exceeded.

MIXING

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

It is recommended to prepare only the quantity that may be applied within the maximum workability time.

1. To ensure that all solids are evenly dispersed, mix each Part A unit of *Mapefloor Finish 630* [NA] mechanically for about 1 minute, using an electric drill mixer at low speed (300 to 400 rpm).
2. Pour all of the Part B hardener into the Part A container and mix thoroughly to a smooth, homogeneous consistency.
3. Do not mix at high speeds or overmix, which can trap air within the mixed material.
4. During the mixing process, scrape down the sides and bottom of the container to completely mix all of the components.
5. Apply the mixed *Mapefloor Finish 630* [NA] within the pot life indicated in the chart below. Higher ambient and substrate temperatures will reduce the pot life of the mix, while lower temperatures will increase its pot life, as well as increase the viscosity and affect coverage.

CLEANUP

After use, tools that were used to prepare and apply *Mapefloor Finish 630* [NA] should be cleaned immediately with plenty of running water.

Product Performance Properties

Laboratory Tests	Results
Abrasion resistance – ASTM D4060	
CS17/1,000 cycles 1000 g (2.2 lbs)	25 mg
Water vapor transmission – ASTM E96	
Water Method B	19.0 perms
Bond strength – ASTM D4541	500.2 psi (3.45 MPa)
Tensile strength (high yield) – ASTM D2370	1,377.5 psi (9.5 MPa)
Tensile strength (at break) – ASTM D2370	1,957.5 psi (13.5 MPa)
Elongation (high yield) – ASTM D2370	14.20%
Elongation (at break) – ASTM D2370	200%
Solids content (by volume)	38%
Solid content (by weight)	36%
VOC content (SCAQMD Rule 1113)	< 350 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	120 g per L

Application Properties

at 73°F (23°C) and 50% relative humidity

Dry to touch	35 minutes
Time before recoating	5 hours
Time before full cure	24 hours
Time before permitting light traffic	8 hours

Shelf Life and Product Characteristics

before mixing

Shelf life	1 year when stored in original, unopened packaging
Pot life	35 minutes
Storage conditions	Store in a dry place at 54°F to 86°F (12°C to 30°C).

Packaging

Size
Kit: 2.63 U.S. gals. (9.95 L) Part A: 1.295 U.S. gals. (4.90 L) – two units Part B: 5 U.S. oz. (147.8 mL)

Approximate Coverage*

per one mixed unit

Thickness	Coverage
3 mils	1,405 to 1,410 sq. ft. (130 to 131 m²)
4 mils	1,050 to 1,055 sq. ft. (97.5 to 98 m²)

* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to the substrate conditions and setting practices.

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