

Mapedeck Finish 111 TSR

Two-Component, Aliphatic, Matte-Finish, Polyurethane Finishes



DESCRIPTION

Mapedeck® Finish 100, Mapedeck Finish 100 TS, Mapedeck Finish 111 R and Mapedeck Finish 111 TSR are two-component, aliphatic, matte-finish, polyurethane dispersion finishes. Depending on the product, they are available in NCS and RAL custom colors, transparent and anti-skid finishes. *Mapedeck* finishes form a tough abrasion-resistant, UV-resistant, non-yellowing, and easy-to-clean finish over properly prepared surfaces.

FEATURES AND BENEFITS

- Available in four types of finish:
 - *Mapedeck Finish 100* – Smooth matte finish, with a tintable base allowing NCS and RAL custom color matches upon request
 - *Mapedeck Finish 100 TS* – Smooth transparent finish
 - *Mapedeck Finish 111 R* – Anti-skid finish, with a tintable base allowing custom NCS and RAL color matches upon request
 - *Mapedeck Finish 111 TSR* – Anti-skid transparent finish
- Easy-to-mix, two-component, polyurethane dispersion products
- Solvent-free formula; great for interior areas where solvent-based products can pose issues with the application
- Easy application with brush or roller
- Resistant to UV exposure and will not yellow
- Tough wear-resistant finish resistant to scuffing and easy to clean
- For internal and external applications

INDUSTRY STANDARDS AND APPROVALS

- IMO MED: These *Mapedeck* finishes are classified under IMO MED as surface materials and floor coverings with low flame-spread characteristics.

WHERE TO USE

- Apply as a protective colored or transparent finish over new or existing polyurethane, epoxy or cement-based surfaces.
- Apply as a protective colored or transparent anti-skid surface over new or existing polyurethane, epoxy or cement-based surfaces.
- For internal and external applications.

LIMITATIONS

- Do not add solvent to *Mapedec* finishes. Dilute *Mapedec* finishes with clean, clear water only.
- Do not expose the mixed product to sources of heat.
- Do not install over wet surfaces or standing water.
- *Mapedec Finish 100 TS* and *Mapedec Finish 111 TSR* are transparent and non-yellowing but will not prevent yellowing of the new or existing surfaces that they cover. For information about a surface's UV stability or propensity to yellowing when exposed to UV light, consult the Technical Data Sheet (TDS) or contact the manufacturer of the product that the *Mapedec* finish will be applied over.
- Do not apply if the surface temperature of the substrate is not at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point.
- Do not use if the working time has been exceeded.
- Do not exceed the maximum re-coating window of 18 hours when applying additional coats of a *Mapedec* finish.
- Temperatures above 73°F (23°C) will shorten the time before recoating is possible, and temperatures cooler than 73°F (23°C) will extend the time before recoating.
- Hot, dry and/or windy conditions will shorten the dust-dry time and can result in higher incidence of surface defects.
- For best results, use the product when ambient and substrate temperatures are between 50°F and 86°F (10°C and 30°C) and never apply below 41°F (5°C).

SUITABLE SUBSTRATES

- Existing epoxy-based screeds or leveling materials
- Existing polyurethane-based products and systems
- Cement-based underlayments and screeds

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

SURFACE PREPARATION

- All substrates must be in good condition, clean and free of oil, grease, dirt, dust, corrosion, loosely bonded toppings, and any other substance that would reduce or inhibit bond.
- Cement-based surfaces must be fully cured, or cured per the manufacturers' recommendations as acceptable to receive a nonporous finish.

MIXING

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

1. Components A and B of *Mapedec* finishes should be allowed to acclimate to the ambient temperature where the finish will be applied. For best results, acclimate the product at between 50°F and 86°F (10°C and 30°C).
2. Each *Mapedec* finish is a two-component aliphatic polyurethane. Components A and B can separate in shipment, and each should be blended individually before being mixed together.
3. *Mapedec* finishes can either be mixed as full units or proportionately by weight. For mixing less than a full unit, carefully measure by weight component A and B to the ratios specified in the application data section chart on this TDS.
4. *Mapedec* finishes can be diluted to modify the working properties during the mixing process only. Refer to the "Application Properties" chart below for the quantity of clean, clear, cool water that can be added.
5. Mix components A and B in a clean mixing container for 2 to 3 minutes, using a 300- to 400-rpm drill with an appropriate mixing paddle.
6. Use a spatula or margin trowel to scrape the sides and bottom of the mixing container during mixing, ensuring that no unmixed material is adhered to the sides or bottom of the container.
7. Do not trap air into the mix by whipping the product at high speed, or by raising and lowering the mixing paddle rapidly while mixing.
8. Apply the mix as soon as possible to the substrate, within 30 minutes from the start of the mixing process.
9. The working time of a *Mapedec* finish will be affected by the product temperature, ambient temperature and substrate temperature. Temperatures above 73°F (23°C) will reduce the working time, and temperatures below 73°F (23°C) will extend the working time.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. For best results, apply when the product, substrate and ambient temperatures are between 50°F to 86°F (10°C to 30°C) and at a relative humidity (RH) of 35% to 75%.
2. Do not install if the temperature of the substrate is not at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point temperature.
3. Apply the *Mapedec* finish to the surface with a brush or roller recommended for polyurethane finishes before the expiration of the working time.
4. Apply in a thin film to prevent surface defects caused by puddles or over-application.
5. Work the product into the surface in a V- or X-shaped pattern, and work only over areas that have not skinned over.
6. Allow the *Mapedec* finish to dry for at least 6 to 8 hours before applying a second coat.

CLEANUP

- Use water to clean tools promptly following use. Cured material can only be removed mechanically.

CURING

- Cool-weather conditions may extend curing and setting times.
- Warm-weather conditions may accelerate setting and curing times and may reduce working time.

PROTECTION

- Protect *Mapedec* finishes from excessive heat during curing.
- Protect the installation of a *Mapedec* finish from dirt and dust from other trades until it is dust-dry (after about 40 minutes depending on conditions).
- Avoid walking on the installed surface for at least 6 to 8 hours after installation, depending upon temperature conditions.

MAINTENANCE

- *Mapedec* finishes must be allowed to cure at least 72 hours before regular cleaning and 7 days for heavy-duty cleaning.
- Contact your MAPEI Marine representative or Technical Services for the MAPEI cleaner that is best for your application.

Shelf Life and Product Characteristics

before mixing

	<i>Mapedec Finish</i> 100	<i>Mapedec Finish</i> 100 TS	<i>Mapedec Finish</i> 111 R	<i>Mapedec Finish</i> 111 TSR
Color	NCS and RAL colors	Opaque white	NCS and RAL colors	Opaque white
Physical state	Liquid	Liquid	Liquid	Liquid
Density of Part A	1.1 +/-0.05 kg/L	1.05 +/-0.05 kg/L	1.1 +/-0.05 kg/L	1.05 +/-0.05 kg/L
Dry-solids content	40% - 45% depending on color selected	37%	40% - 45% depending on color selected	40%
Shelf life	1 year when stored in original, unopened packaging at 54°F to 86°F (12°C to 30°C) and 50% RH			

Application Properties

at 73°F (23°C) and 50% RH

	<i>Mapedec Finish 100</i>	<i>Mapedec Finish 100 TS</i>	<i>Mapedec Finish 111 R</i>	<i>Mapedec Finish 111 TSR</i>
Mixing ratio by weight (Component A to Component B)	11 to 2	10 to 2	11 to 2	10 to 2
Maximum dilution of mixture	Up to 20%			
Working time	30 minutes			
Substrate temperature range for application	50°F to 86°F (10°C to 30°C)			
Drying time before recoating	6 to 8 hours			
Maximum time before recoating	18 hours			
Time before dust-dry	About 40 minutes			
Time before allowing foot traffic	6 to 8 hours			
Full cure	7 days			

Product Performance Properties

	<i>Mapedec Finish 100</i>	<i>Mapedec Finish 100 TS</i>	<i>Mapedec Finish 111 R</i>	<i>Mapedec Finish 111 TSR</i>
Taber abrasion (CS 17 disk, 1000g, 500 rev.)/ mg	100			120
Gloss at 140°F (60°C)	12	10	12	10
QUV color variation	> 1,500 hours, no variation			

Packaging

	<i>Mapedec Finish 100</i>	<i>Mapedec Finish 100 TS</i>	<i>Mapedec Finish 111 R</i>	<i>Mapedec Finish 111 TSR</i>
Part A	12.13 lbs. (5.5 kg)	11.02 lbs. (5 kg)	12.13 lbs. (5.5 kg)	11.02 lbs. (5 kg)
Part B	2.205 lbs. (1 kg)			
Total weight of parts A + B	14.34 lbs. (6.5 kg)	13.23 lbs. (6 kg)	14.34 lbs. (6.5 kg)	13.23 lbs. (6 kg)

Approximate Coverage*

	<i>Mapedec Finish 100 14.34 lbs. (6.5 kg)</i>	<i>Mapedec Finish 100 TS 13.23 lbs. (6.0 kg)</i>	<i>Mapedec Finish 111 R 14.34 lbs. (6.5 kg)</i>	<i>Mapedec Finish 111 TSR 13.23 lbs. (6.0 kg)</i>
Parts A + B	0.0164 to 0.0205 lbs./sq. ft. (80 to 100 g/m ²)	0.0164 to 0.0205 lbs./sq. ft. (70 to 100 g/m ²)	0.0164 to 0.0205 lbs./sq. ft. (80 to 100 g/m ²)	0.0164 to 0.0205 lbs./sq. ft. (70 to 100 g/m ²)
Parts A + B (full kit)	700 to 871 sq. ft. (65 to 81 m ²)	646 to 926 sq. ft. (60 to 86 m ²)	700 to 871 sq. ft. (65 to 81 m ²)	646 to 926 sq. ft. (60 to 86 m ²)

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).

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

MAPEI Headquarters of North America

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

Technical Services

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

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

Canada:

1-800-361-9309

Customer Service

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

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