Mapedeck Monodesign

Decorative Coating for Walls and Floors

0474

DESCRIPTION

Mapedeck® *Monodesign* is a ready-to-use, fine-textured, single-component, aliphatic polymer, trowel-applied coating used to form seamless decorative effects for floor and wall applications in internal areas.

FEATURES AND BENEFITS

- Ready to use; single-component
- Easy-to-trowel formula designed for ease of application
- Formulated to create decorative effects on both walls and floors
- Non-yellowing
- Chemical- and abrasion-resistant
- Easy to clean and maintain
- Available in NCS, RAL and custom colors upon request (contact a MAPEI representative for details)

INDUSTRY STANDARDS AND APPROVALS

- *Mapedeck Monodesign* is certified as “surface materials and floor coverings with low flame-spread characteristics” according to IMO Res. 61(67) FTPC Annex 1, Parts 2 and 5.

WHERE TO USE

- To form a decorative finish on interior walls and floors

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior use only.
- Do not dilute *Mapedeck Monodesign* with solvent or water.
- Do not apply over surfaces that are dusty or have stains.
- Do not expose the product to sources of heat.
- Do not install over structural or expansion joints in the substrate.
- Do not install over wet surfaces or standing water.
- Do not install if the temperature is below 41°F (5°C) and/or the relative humidity (RH) is higher than 70%.
- Apply only if the temperature of the substrate is at least 5 degrees Fahrenheit (3 degrees Celsius) above the dew point.
- Use the product at between 41°F and 86°F (5°C and 30°C).

SUITABLE SUBSTRATES

- Properly primed, well-supported metal substrates
- Existing primed, polyurethane-based screeds and leveling materials

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

SURFACE PREPARATION

- Substrates must be rigid, solidly fixed in place, clean and free of oil, grease, dirt, dust, corrosion, loosely bonded toppings and any other substance that would reduce or inhibit bond.
- For best results, sand, clean and remove all residue for newly applied and existing resin surfaces before application.
- Prepare steel surfaces by mechanical grinding, brushing or blasting according to SSPC SP2-3-11 (ISO 8501-1 ST2-ST3) to remove all oxidation. For best results, prepare steel surfaces to SSPC-SP6 (ISO 8501-1 SA2) surface quality or better.
- Prime surfaces as follows before application of *Mapedeck Monodesign*:
    - Horizontal surfaces: Prime all horizontal metal surfaces, polyurethane resin (existing or old) or epoxy resin surfaces with *Mapedeck Primer 200*, *Mapecoat Guard 100* or another approved MAPEI primer. Mix the primer according to its Technical Data Sheet (TDS) instructions and apply the primer to the horizontal surface with the appropriate 3/8" (9.5-mm) nap roller. While the primer is still wet on the surface, perform a sand broadcast to rejection with ASTM #50 to #60 (0.25 mm or 25 micron) clean, dry silica. When the primer is dry, remove any excess silica by sweeping and vacuuming.
    - Vertical surfaces: Prime all vertical metal surfaces, polyurethane resin (existing or old) surfaces with *Mapedeck Primer 200*, *Mapecoat Guard 100* or another approved MAPEI primer. Mix the primer according to its TDS instructions and add 10% to 20% by weight ASTM #50 to #60 (0.25 mm or 25 micron) clean, dry silica. Apply this mixture of primer and silica to the vertical surface with a 3/8 in. (9.5-mm) nap roller.
- If the substrate is aluminum or another surface not identified in this TDS, contact MAPEI Marine's Technical Services for additional information and which primer is best for your application.

MIXING

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

1. *Mapedeck Monodesign* is a ready-to-use, single-component, aliphatic polymer coating. Because some separation can occur in shipping, it is recommended to mix the product.
2. Mix *Mapedeck Monodesign* for up to 2 minutes with a 300- to 400-rpm drill and an appropriate mixing paddle to ensure an even consistency. Do not trap air in the product by whipping it at high speed.
3. If only a partial unit of *Mapedeck Monodesign* is utilized:
   a. Clean the sides of the bucket of any dried material.
   b. Cover the remainder of wet material in the bucket with a piece of clean, dry plastic to prevent the formation of lumps or dry crust on the material.
   c. Seal the container with its original lid.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Application properties of *Mapedeck Monodesign* will be affected by ambient temperature, relative humidity, substrate temperature and product temperature. Temperatures above 73°F (23°C) will reduce the application time, temperatures below 73°F (23°C) will extend the application time, and high humidity will extend application and drying time.
2. Apply an even coating of *Mapedeck Monodesign* with a stainless steel or plastic spreading tool. Spread to form the desired decorative effect.
3. Do not build up the product; rather, apply a thin layer following the contour of the surface.
4. If necessary, apply a second layer of *Mapedeck Monodesign* after it has hardened. Before application of the second layer, lightly sand the surface and remove the dust. Then apply the next layer with a stainless steel or plastic spreading tool.
5. *Mapedeck Finish HDT* can be applied over *Mapedeck Monodesign* to seal and protect the decorative surface. Before this application, lightly sand the surface of the hardened *Mapedeck Monodesign* and remove the dust created by this process.

CLEANUP

- Clean tools promptly with water before the material hardens. Cured material can only be removed mechanically.

CURING

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

PROTECTION

- Protect *Mapedeck Monodesign* from moisture or excessive heat (above 95°F or 35°C) during curing.
- Avoid walking on the installed surface for at least 24 hours after installation, depending upon temperature conditions. Protect the installation from traffic, dirt and dust from other trades until *Mapedeck Monodesign* is completely cured and finished.
- Do not expose *Mapedeck Monodesign* to rolling dynamic loads, such as fork lifts or scissor lifts, for at least 7 days after installation.

Product Performance Properties

Laboratory Tests	Results
Taber abrasion – ASTM D4060 (H22 disk, 500 g, 200 revs)	
7 days	0.53 g
28 days	0.17 g

Shelf Life and Product Characteristics

before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) and 50% RH
Storage conditions	Store in a dry place and protect from freezing.
Physical state	Thixotropic paste
Colors	NCS, RAL and custom colors available upon request
Density	1.60 kg/L

Application Properties

at 73°F (23°C) and 50% RH

Mixing time	2 minutes
Application temperature range	41°F to 86°F (5°C to 30°C)
Consistency of mix	Thixotropic paste
Working time	30 minutes
Time before dust-dry	2.5 hours
Time before allowing foot traffic	10 hours

Complete hardening time	7 days

Packaging

Size
Plastic bucket: 17.6 lbs. (8 kg)

Approximate Coverage*

Thickness	Coverage per unit
0.05" to 0.065" (1.25 to 1.66 mm)	108 to 143 sq. ft. (10.0 to 13.3 m^2)
Thickness	**Coverage by weight**
0.05" to 0.065" (1.25 to 1.66 mm)	0.12 to 0.16 lbs. / sq. ft. (0.6 to 0.8 kg / m^2)

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

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet 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.

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