

Mapecure DR and Mapecure DR 1D

Water-Based, Dissipating-Resin Curing Compounds



DESCRIPTION

Mapecure™ DR and *Mapecure DR 1D* are water-based, liquid, membrane-forming curing compounds for freshly placed concrete. Formulated from specially selected dissipating hydrocarbon resins, they are designed to retain water in the concrete for proper hydration, and then to begin breaking down and deteriorating when exposed to traffic, sunlight and weathering. *Mapecure DR 1D* includes an already added fugitive dye, with the same performance that *Mapecure DR* offers.

FEATURES AND BENEFITS

- Low-VOC, water-based formulations
- Easily applied by spray or roller
- Dissipate over several weeks to allow for subsequent applications of coverings, coatings and sealers

INDUSTRY STANDARDS AND APPROVALS

- ASTM: C309, Type 1 and 1D, Class A and B Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- AASHTO: M148, Type 1 and 1D, Class A and B
- USDA-compliant

WHERE TO USE

- Use for curing interior and exterior concrete.
- Curing compounds for curbs and highway
- Curing compounds for median barriers, bridge decks, parking lots and walkways
- Use when subsequent finishes will be applied such as traffic deck membranes, stains/dyes or penetrating sealers.

SURFACE PREPARATION

- All substrates must be clean and free of standing water.
- Apply *Mapecure DR* and *Mapecure DR 1D* at the recommended coverage rate as soon as possible after final finishing of concrete.

MIXING

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

- *Mapecure DR* and *Mapecure DR 1D* should be thoroughly stirred or agitated before use.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply *Mapecure DR* or *Mapecure DR 1D* immediately after final finishing of concrete.
2. Apply using a low-pressure, airless industrial sprayer with a fan tip (rated at 1 U.S. gal. [3.79 L] per minute); or a roller with a 3/8" (10 mm) nap.
3. Apply *Mapecure DR* or *Mapecure DR 1D* uniformly without puddling.
4. Both *Mapecure DR* and *Mapecure DR 1D* begin to dissipate and lose adhesion from the concrete 4 to 6 weeks after application – depending on the application rate, moisture level in the concrete, and exposure to ultraviolet light, weathering and traffic.

CLEANUP

- Clean tools and equipment with soap and water immediately after use.
- Dried material may be removed using d-Limonene citrus type of solvent (> 40% solution) from tools and concrete surfaces.

LIMITATIONS

- Do not use when ambient and concrete surface temperatures are below 40°F (4°C), or if rain is expected within 12 hours after application.
- For optimum installation, ambient temperature and surface temperatures should be between 45°F and 100°F (7°C and 38°C). The product temperature should be between 50°F to 90°F (10°C and 32°C).
- Longer dissipation times for *Mapecure DR* and *Mapecure DR 1D* can be expected if the applied products are not exposed to traffic and sunlight, or if they are applied thicker than the recommended coverage rates.
- After application, *Mapecure DR* and *Mapecure DR 1D* must remain uncovered and unprotected for proper dissipation.

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

Product Performance Properties

Laboratory Tests	Results
Solids content	> 15%
VOC content (SCAQMD Rule 1113)	< 100 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	166 g per L
Moisture loss – ASTM C156	< 0.55 kg per m ²

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Physical state	Liquid
Color	Pale yellow for <i>Mapecure DR</i> ; red for <i>Mapecure DR 1D</i>

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.

Application Properties

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

Drying time	1 hour
Ready for foot traffic	2 to 4 hours
Ready for wheel traffic	6 to 10 hours
Visibility of fugitive dye	> 4 hours

CSI Division Classifications

Concrete Curing	03 39 00
Concrete Finishing	03 35 00

Packaging

Size
Bucket: 5 U.S. gals. (18.9 L)
Drum: 55 U.S. gals. (208 L)
Tote: 275 U.S. gals. (1 041 L)

Approximate Coverage*

per 1 U.S. gal. (3.79 L)

Substrate	Coverage
Textured concrete	275 to 325 sq. ft. per U.S. gal.)
Smooth concrete	375 to 425 sq. ft. per U.S. gal. (9.19 to 10.4 m ² per L)

* Coverage varies depending on the porosity of the substrate.

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet respective to each product used 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.**

CONTACT INFORMATION

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