

Mapecure UV WB

High-Solids, Water-Based, Acrylic Curing and Sealing Compound



DESCRIPTION

Mapecure™ UV WB is a UV-stable, low-VOC, water-based, styrenated acrylic copolymer especially formulated for curing and sealing fresh concrete. Mapecure UV WB is suitable on concrete surfaces, creating a continuous glossy appearance.

FEATURES AND BENEFITS

- High-solids content
- UV-stable
- Low-odor
- Cures and seals freshly placed concrete
- Can be used as a sealer on existing concrete

INDUSTRY STANDARDS AND APPROVALS

- ASTM: C309, Type 1, Class A and B Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- ASTM: C1315, Type 1, Class A Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete
- AASHTO: M148, Type 1, Class A and B
- USDA-compliant

WHERE TO USE

- Interior and exterior applications
- For curing and sealing freshly placed and finished concrete
- For sealing existing concrete

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

SURFACE PREPARATION

- All substrates must be clean and free of standing water.

MIXING

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

- *Mapecure UV WB* is packaged as ready to use.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply using a low-pressure, airless industrial sprayer with a fan tip (rated at 1 U.S. gallon or 3.79 L per minute) and a solvent-resistant roller with a 3/8" (10 mm) nap.
2. For best appearance, keep a wet edge while spraying or backrolling.
3. Porous concrete surfaces may require a second application to provide a uniform seal and appearance. In addition, two thin coats of *Mapecure UV WB* are recommended rather than one heavy coat. Apply the second coat between 2 to 24 hours after applying the first coat.
4. Surfaces previously sealed with *Mapecure UV WB* should be cleaned and resealed at intervals that depend on exposure and traffic.

CLEANUP

- Immediately after using tools and equipment, clean them with a warm soap and water mixture.
- Dried material may require mechanical removal.

LIMITATIONS

- Do not use when ambient and concrete surface temperatures are below 40°F (4°C). For best results, apply the material at 45°F to 90°F (7°C to 32°C).
- For optimum installation, do not work in direct sunlight or when the concrete and/or ambient temperature is 90°F (32°C) and rising.
- Do not apply over bleed water or free-standing water.
- Any curing compounds, sealers or other materials that may prevent adhesion of *Mapecure UV WB* must be removed.

- Do not use as a bond breaker for tilt-wall construction.
- Do not use on painted surfaces.
- *Mapecure UV WB* may darken concrete surfaces. Apply a test patch before general application.
- Do not use in areas subject to gasoline, brake fluid, hot grease or oils.
- Do not dilute *Mapecure UV WB*.
- Surface cleanliness and proper coverage rate are crucial for achieving blemish-free results on existing concrete.
- Immediately clean spilled liquids from *Mapecure UV WB*.

Product Performance Properties

Laboratory Tests	Results
Solids	> 25%
VOCs (Rule #1113 of California's SCAQMD)	20 g per L
Flash point	> 94°F (34.4°C)
ASTM C156 – Moisture retention	0.389 kg/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	White

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

Adhesion to concrete	Excellent
Alkali resistance (48-hour exposure)	Excellent
Resistance to yellowing	Excellent
Drying time at 73°F (23°C) and 50% relative humidity	< 1 hour
Ready for recoating	2 to 24 hours
Ready for foot traffic	2 to 4 hours
Ready for wheel traffic	6 to 10 hours

CSI Division Classification

Concrete Curing	03 39 00
Concrete Finishing	03 35 00

Packaging

Size
Pail: 1 U.S. gal. (3.79 L)
Pail: 5 U.S. gals. (18.9 L)
Drum: 55 U.S. gals. (208 L)

Approximate Coverage*

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

Laboratory Tests	Results
Curing and sealing of new concrete	<u>First coat:</u> 300 to 400 sq. ft. per U.S. gal. (7.35 to 9.8 m ² per L) <u>Optional second coat:</u> 400 to 450 sq. ft. per U.S. gal. (9.8 to 11.0 m ² per L)
Sealing of existing concrete	<u>First coat:</u> 400 to 450 sq. ft. per U.S. gal. (9.8 to 11.0 m ² per L) <u>Optional second coat:</u> 450 to 550 sq. ft. per U.S. gal. (11.0 to 13.5 m ² per L)

* Coverage varies depending on the porosity of the substrate.

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).

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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Customer Service

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

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