

Mapecure AP

General-Purpose, Acrylic Polymer Curing and Sealing Compound



DESCRIPTION

Mapecure[™] AP is a general-purpose, solvent-borne, styrenated acrylic polymer curing and sealing compound, designed for curing new concrete and sealing new and hardened concrete. *Mapecure AP* produces a medium-gloss, clear film to protect concrete surfaces from water intrusion, dirt and abrasion.

FEATURES AND BENEFITS

- Cures and seals freshly placed concrete
- Protects concrete from de-icing salts, mild chemicals and detergents
- Seals concrete surfaces, enabling easier cleanup

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

WHERE TO USE

- Interior/exterior
- For curing and sealing freshly placed concrete
- For sealing existing concrete

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 AP* is packaged as ready-to-use.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply using a low-pressure, airless or pump-up industrial sprayer with a high-solids fan tip (rated at 1 U.S. gal. [3,79 L] per minute); or a solvent-resistant, sleeved roller with a 3/8" (10 mm) nap.
2. For best appearance, keep a wet edge while spraying and backrolling.
3. Two thin coats of *Mapecure AP* are recommended rather than one heavy coat. Apply the second coat between 2 and 24 hours after the first coat.
4. Surfaces previously sealed with *Mapecure AP* should be cleaned and resealed every 6 months to 3 years, depending on exposure and traffic.

CLEANUP

- Clean tools and equipment with solvent immediately after use.
- 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 install in direct sunlight or when the concrete and/or ambient temperature is 90°F (32°C) and rising.
- When installing *Mapecure AP*, keep away from open flames and heat; extinguish pilot lights; turn off thermostats, heaters, furnaces and air cleaners; and use in well-ventilated areas with cross-ventilation.
- When *Mapecure AP* is applied on cured concrete, it will darken the surface and highlight imperfections.
- Any curing compounds, sealers or other materials that may prevent adhesion of *Mapecure AP* must be removed.
- Do not use as a bond breaker for tilt-wall construction.
- Do not use on painted surfaces.
- Do not use in areas subject to gasoline, brake fluid, hot grease or oils.
- Do not dilute *Mapecure AP*.
- *Mapecure AP* may yellow when placed in areas of direct sunlight.

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

Product Performance Properties

Laboratory Tests	Results
Solids	≥ 25%
VOCs (Rule #1113 of California's SCAQMD)	700 g per L
Flash point	> 109.4°F (43°C)

Shelf Life and Product Characteristics

Shelf life	3 years when stored in original, unopened packaging at 73°F (23°C)
Physical state	Liquid
Color	Clear

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 discoloration	Moderate
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 Classifications

Concrete Curing	03 39 00
Concrete Finishing	03 35 00

Packaging

Size

5 U.S. gals. (18,9 L)

55 U.S. gals. (208 L)

Approximate Coverage*

per 1 U.S. gal. (3,79 L)

Application	Coverage
Curing and sealing of new concrete	First coat: 300 to 350 sq. ft. per U.S. gal. (7,35 to 8,57 m ² per L) Optional second coat: 350 to 400 sq. ft. per U.S. gal. (8,57 to 9,8 m ² per L)
Sealing of existing concrete	First coat: 350 to 400 sq. ft. per U.S. gal. (8,57 to 9,8 m ² per L) Optional second coat: 350 to 400 sq. ft. per U.S. gal. (8,57 to 9,8 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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