

Mapecoat AG WB

Water-Based, Non-Sacrificial, Anti-Graffiti Coating



DESCRIPTION

Mapecoat™ AG WB represents the latest in silicone technology. It is a clear, low-VOC, water-based, non-sacrificial coating that requires just cold water for the removal of most graffiti from surfaces pre-treated with this product, with no requirement of harsh chemicals or specialized equipment. *Mapecoat AG WB* will remain as an effective barrier against graffiti through repeated cleaning cycles.

FEATURES AND BENEFITS

- One-component, water-based silicone coating
- Ultra low VOCs
- Does not yellow or chalk
- Long-term graffiti resistance
- Easy removal of spray paints, markers and pens
- Vapor-permeable to allow the passage of water vapor into and out of the substrate

WHERE TO USE

- Concrete, exterior insulation and finish systems (EIFS), stucco, concrete masonry units (CMUs), cement board and fiber-reinforced polymer (FRP)
- Natural stone, brick, cultured stone and stone veneers

- Above-grade exterior surfaces
- For use on new or previously coated substrates

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

SUITABLE SUBSTRATES

- Clean, sound, stable, frost-free concrete, CMUs, stucco and brick mortar
- Previously painted brick, stone veneer, EIFS, stucco, concrete, CMUs, cement board and steel

SURFACE PREPARATION

- All surfaces must be structurally sound, clean, dry and free from oils, dirt, debris and minerals such as efflorescence, lime and calcium. To ensure that the surface is as clean as possible, wash it with soap and water, rinse it thoroughly and allow it to dry completely. This is especially important when applying over painted, stained and wood surfaces.

MIXING

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

- Mix thoroughly before application. Avoid aggressive agitation that may produce excessive air generation or foaming.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. Contact MAPEI's Technical Services Department for more detailed recommendations.

1. Air, material and substrate temperatures during application must be between 40°F and 100°F (5°C and 38°C).
2. Apply by brush, roller or spray at a rate of about 150 to 160 sq. ft. per U.S. gal. (3.67 to 3.92 m² per L), sufficient to produce a wet film thickness (WFT) of 10 to 12 mils.
3. When spraying, apply in a cross-hatched pattern to ensure complete coverage of the surface.
4. When applying by roller, use a 3/8" to 1/2" (10 to 12 mm) nap roller cover. Always keep the roller loaded with material and moving slowly.
5. Maintain a uniform WFT during application, finishing the coated area by lightly rolling the surface in one direction. Always work to a natural break and maintain a wet edge.
6. Test the product on a small area to ensure that the finished appearance is satisfactory.
7. Graffiti resistance is fully developed after a curing time of 7 to 14 days.

CLEANUP

- Clean tools and equipment immediately after use with water. Dried material may require mechanical means for removal.

GRAFFITI REMOVAL

- For delicate surfaces, use a sponge or soft bristle brush, soap and water. Gently scrub the area until the graffiti is removed. Rinse the surface with water afterwards.
- Remove graffiti with a power washer (at a maximum of 2,000 psi) and cold water.
- For more difficult graffiti, isopropyl alcohol or a commercially available graffiti cleaner may be required. Follow the manufacturer's recommendations, safety precautions and use instructions.

LIMITATIONS

- Apply *Mapecoat AG WB* only when ambient and substrate temperatures are between 40°F and 100°F (5°C and 38°C).
- Not suitable for surfaces subject to pedestrian or vehicular traffic
- Do not apply when there is a threat of rain within the next 48 hours or when the relative humidity is in excess of 90%, as such conditions would not permit complete drying.
- Do not apply to asphaltic materials or tar-contaminated masonry.
- On newly applied or green cementitious materials, industry guidelines recommend at least 28 days of curing before painting or coating such substrates.

Product Performance Properties

Laboratory Tests	Results
Appearance	Semi-gloss, 60 to 70 @ 60°
Weight per volume	8.51 lbs. per U.S. gal. (1.03 g per cm ³)
Solids content	46%
Water-vapor permeance – ASTM E96	20 perms
Elongation (at break) at 73°F (23°C) and 50% relative humidity – ASTM D412	455%
Tensile strength – ASTM D412	673 psi
Accelerated weathering – ASTM G154	10,000 hours
Graffiti removal pressure wash – ASTM D7089	Pass. Graffiti is completely removed with high-pressure cold-water wash.
Graffiti resistance – ASTM D6578	Permanent marker cleanable with dry rag
	Acrylic spray paint cleanable with isopropyl alcohol
	Alkyd spray paint cleanable with isopropyl alcohol
	Wax crayon cleanable with dry rag
	Ball point pen cleanable with detergent
	Water-based marker cleanable with dry rag

Shelf Life and Properties before application

Shelf life	1 year in original, unopened container at 73°F (23°C)
Consistency	Pourable liquid
Color	Milky (dries clear)
VOC content (SCAQMD Rule 1113)	<100 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	21 g per L

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

Drying time at 70°F (21°C) and 50% relative humidity	
Time until dry to the touch	2 hours
Time before recoat or topcoat	6 hours
Time until full curing	7 to 14 days

CSI Division Classification

Painting and Coating	09 96 23

Packaging

Pail: 5 U.S. gals. (18.9 L)	

Approximate Coverage*

Thickness	Coverage
10 mils WFT or 4.6 mils dry film thickness (DFT)	160 sq. ft. per U.S. gal. (3.92 m ² per L)
20 mils WFT or 9.2 mils DFT	80 sq. ft. per U.S. gal. (1.96 m ² per L)

* Coverage varies depending on the surface porosity and texture of the surface as well as on job requirements.

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

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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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