

MapeWrap Primer 1

Low-Viscosity, 100%-Solids, Epoxy Resin Primer for the MapeWrap® Composite System



DESCRIPTION

MapeWrap Primer 1 is a 100%-solids, moisture-tolerant, low-viscosity, two-component, epoxy resin that is used as a seal coat for consolidating and priming concrete substrates. As the first component of the MapeWrap composite system, MapeWrap Primer 1 penetrates cementitious pore structures and provides a high bond for the other system components.

FEATURES AND BENEFITS

- 100%-solids epoxy
- Solvent-free and VOC-compliant
- Low viscosity allows for excellent penetration of cementitious pore structures

WHERE TO USE

- Use on interior, exterior, horizontal, vertical and overhead surfaces.
- Use on concrete, masonry, wood and steel.
- Use to promote excellent adhesion for the MapeWrap C Uni-Ax System and Carboplate® System. Refer to the selected system's Technical Data Sheet for more information on the installation step.

SUITABLE SUBSTRATES

- Use on properly prepared, structurally sound, fully cured concrete substrates (at least 28 days old), as well as masonry, steel and wood.

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

SURFACE PREPARATION

Consult the TDS of the selected MAPEI fiber-reinforced polymer (FRP) system for surface-preparation instructions.

MIXING

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

1. Carefully pour Part B into Part A.
2. Mix with a low-speed mixer (at 400 to 600 rpm) and a standard Jiffy paint-mixing paddle for about 3 minutes, until the mixture has a smooth, homogenous consistency. Part A and Part B components are preproportioned (mix ratio: 3 parts by weight of Part A and 1 part by weight of Part B) and should be mixed as full units. Partial mixing of Part A and Part B is prohibited.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Prime the surface that needs to be reinforced with a brush or 3/8" (10-mm) nap roller and an even coat of *MapeWrap Primer 1* at a rate of 150 to 190 sq. ft. per U.S. gal. (3.67 to 4.65 m² per L). Very porous substrates may require a second coat after the first coat has been completely absorbed.
2. When applying the products in a closed environment, provide good ventilation. For further information, carefully read the SDS of each product.

CLEANUP

- Due to the high bond strength of *MapeWrap Primer 1* on metal, clean tools with approved solvents (ethyl alcohol, toluene, etc.) before the product dries. Cured material can only be removed mechanically. Dispose of cured material in accordance with local disposal regulations.

LIMITATIONS

- Apply *MapeWrap Primer 1* when the ambient temperature is between 50°F and 90°F (10°C and 32°C).
- Contact MAPEI's Technical Services Department regarding applications below 50°F (10°C) and above 90°F (32°C).
- Do not thin *MapeWrap Primer 1* with solvents.
- Do not mix partial units of *MapeWrap Primer 1*.

Product Performance Properties

Laboratory Tests	Results
Specific gravity	0.036 (lb/in ³)
Adhesion to concrete at 7 days and 73°F (23°C)	> 435 psi (> 3 MPa)
Tensile strength at 7 days – ASTM D638	4,394 psi (30.3 MPa)
Tensile elongation at 7 days – ASTM D638	2.28%
Compressive strength at 7 days – ASTM C579	12,015 psi (82.9 MPa)
VOC content (SCAQMD Rule 1168)	< 70 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	17 g per L

Shelf Life and Application Properties

Shelf life	2 years in original, unopened container in a covered area
Storage conditions	50°F to 90°F (10°C to 32°C). Protect from freezing in shipment and storage.
Consistency (mixed)	Liquid
Color (mixed)	Transparent yellow
Mix ratio (by weight)	Part A : Part B = 3 : 1
Pot life At 50°F (10°C) At 73°F (23°C) At 90°F (32°C)	120 minutes 90 minutes 60 minutes
Tack-free time At 50°F (10°C) At 73°F (23°C) At 90°F (32°C)	5 to 6 hours 3 to 4 hours 2 to 3 hours
Final cure	7 days

CSI Division Classifications

Maintenance of Cast-In-Place Concrete	030130
Composite Reinforcing	032500

Packaging

Size
Kit: 1 U.S. gal. (3.79 L)

Approximate Coverage

Per 1 U.S. gal. (3.79 L)	150 to 190 sq. ft. per U.S. gal. (3.67 to 4.65 m ² per L)
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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) 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,
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