

MAPEI HM Primer

Water-Based, Interior/Exterior Primer for Sheet Membranes



DESCRIPTION

MAPEI HM Primer is a ready-to-use, low-VOC, water-based, quick-drying, high-tack membrane primer. It is specifically formulated to promote maximum adhesion of MAPEI peel-and-stick sheet membranes to high-moisture substrates.

FEATURES AND BENEFITS

- Fully compatible with MAPEI's peel-and-stick sheet membranes
- Ready to use; no mixing or dilution required
- Easy to apply with roller or brush
- Fast-drying, allowing sheet membrane installation after about 20 minutes
- Bonds to a wide variety of substrates, including nonporous concrete and metal
- Low in odor
- Water-based and nonflammable
- For interior and exterior applications
- Aggressive tack, improving the adhesion of peel-and-stick membranes to many substrates

WHERE TO USE

- *MAPEI HM Primer* is formulated to enhance the bond between MAPEI peel-and-stick sheet membranes – *Mapeguard*® 2, *Mapesonic*™ 2 and *Mapeguard CI* – and various substrates.
- For interior and exterior applications

- For further details on where to use this primer in comparison with *MAPEI SM Primer* and *MAPEI SM Primer Fast*, see the Primer Reference Chart below.

LIMITATIONS

Applications are limited to substrate and ambient temperatures as low as 40°F (4°C).

- Do not apply to substrates containing asbestos.
- Do not dilute with any other liquid.
- For specific limitations, see individual Technical Data Sheets (TDSs) for MAPEI peel-and-stick sheet membranes.
- Do not use over substrates subject to hydrostatic pressure or moisture content in excess of 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m²) per 24 hours using a calcium chloride test kit (ASTM 1869).
- Do not install when relative humidity of concrete slabs exceeds 95% (ASTM F2170).
- Do not use over cracks subject to “out-of-plane” vertical movement.
- Do not use where crack movement is greater than 3/8" (10 mm).
- Do not use over expansion joints.
- Do not use in areas of prolonged water exposure and water immersion (such as swimming pools, spas, steam rooms, gang showers, hot tubs and fountains).
- Substrates must be clean and dry. *MAPEI HM Primer* is not to be installed over ponding or standing water, snow or ice.
- Do not apply when rain is imminent.
- Avoid allowing *MAPEI HM Primer* to puddle, as this will lengthen drying time.
- Cold temperatures will extend drying time.
- Exterior applications must be appropriately sloped to prevent standing water.

SUITABLE SUBSTRATES

- Concrete and concrete masonry units (CMUs); concrete slabs must be ASTM F710 or ACI 302.2-06 compliant, be at least 14 days old and have a pH less than 12.
- Nonporous substrates such as metal and nonporous concrete
- Cement mortar beds and leveling coats
- Cement backer units (CBUs) – see manufacturer’s installation guidelines
- Terrazzo floors and well-bonded ceramic tile and natural stone as well as vinyl composition tile (VCT)
- APA and CANPLY Group 1 exterior-grade plywood (interior residential and light commercial floors in dry conditions only). See TCNA Handbook for additional information and the statement regarding deflection criteria.

For additional information, see the current TDSs for MAPEI peel-and-stick sheet membranes. Consult MAPEI’s Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All suitable substrates must be smooth, structurally sound, stable, dry, clean and free of any substance that may reduce or prevent proper adhesion.

- Do not use chemical means (acid etching or stripping) to prepare approved substrates. Use mechanical methods only.
- To remove any bond-inhibiting materials, concrete substrates should be mechanically cleaned and prepared by diamond-cup grinding or other engineer-approved methods to obtain the International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #2. When concrete requires more mechanical preparation, the profile will typically increase. In such cases, the surface can be made smooth by applying coats of a MAPEI exterior-rated patch.
- If the application area is not covered by a membrane in the same day, *MAPEI HM Primer* must be reapplied before installation of the membrane.
- Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.
- For other important surface preparation instructions, see individual TDSs for MAPEI peel-and-stick sheet membranes. For other details, see the “Surface Preparation Requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI’s Website or contact MAPEI’s Technical Services Department.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. When substrate and ambient temperatures are between 40°F and 95°F (4°C and 35°C), apply primer to clean substrate with a roller or brush to achieve full substrate coverage. Do not dilute the primer.
2. Apply *MAPEI HM Primer* with a medium-nap or 1/4" (6 mm) nap roller or with a brush. Do not pour *MAPEI HM Primer* directly onto substrate.
3. Allow *MAPEI HM Primer* to dry for about 20 minutes at 75°F (24°C). The adhesive is sufficiently dry when it is tacky but will not transfer when touched. Adverse climate conditions (such as high humidity and cooler temperatures) and nonporous substrates will necessitate additional drying time.
4. Completely cover the substrate with an even coat of *MAPEI HM Primer* at 250 to 350 sq. ft. per U.S. gal. (23.3 to 32.5 m² per 3.79 L).

CLEANUP

To remove excess *MAPEI HM Primer* from tools, equipment and other nonporous surfaces, use water while the material is still fresh or mineral spirits once it has dried.

PROTECTION

Protect *MAPEI HM Primer* from spills, contamination and damage before and during peel-and-stick membrane application to ensure a positive bond with the membrane.

STORAGE

Store *MAPEI HM Primer* at between 40°F and 110°F (4°C and 43°C). Protect it from weather and do not store it in direct sunlight. Improper storage could lead to product deterioration, making proper application of *MAPEI HM Primer* difficult or impossible. Do not allow *MAPEI HM Primer* to freeze.

Product Performance Properties

Laboratory Tests	Results
VOC content (SCAQMD Rule 1113)	< 100 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	7 g per L
Adhesion to concrete – ASTM D6511	> 20.0 lbs. per linear inches
Flammability	Nonflammable

Shelf Life and Product Characteristics

before mixing

Shelf life	Results
Shelf life	2 years when stored in original, unopened container at between 40°F and 95°F (4°C to 35°C)
Storage	Store in a cool, dry place.
Chemistry	Latex
Color	Green

Application Properties

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

Application temperature range	Results
Application temperature range	40°F and 95°F (4°C to 35°C) with dew point restriction
Drying time before installing MAPEI peel-and-stick membranes	20 minutes (or until clear and tacky) depending on temperature, humidity and substrate porosity

Packaging and Coverage*

Size	Approximate Coverage
Jug: 1 U.S. gal. (3.79 L) – 4 jugs per case	250 to 350 sq. ft. (23.3 to 32.5 m ²)

* Coverage rates for liquid-applied products are based on theoretical coverage relative to the percentage of solids in the material. These are recommended coverage rates to achieve the required dry-film thickness for the product and do not account for substrate condition or porosity. Thicker application of the product may be required to achieve the required dry-film thickness depending on the porosity and surface profile of the substrate.

Primer Reference Chart

	Interior applications			Exterior applications		
	Below-grade	On-grade	Above-grade	Below-grade	On-grade	Above-grade**
MAPEI HM Primer	✓	✓	✓	✓	✓	✓
MAPEI SM Primer		✓	✓			✓
MAPEI SM Primer Fast		✓	✓			✓

** In appropriately sloped exterior environments

RELATED DOCUMENTS

- Reference Guide: Surface Preparation Requirements for tile and stone installation systems***

*** At www.mapei.com

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).

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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