



Primer WE™

Solvent-Free

**Water-Based
Epoxy Primer**



*Primer WE is purple
for easy identification.*

DESCRIPTION

Primer WE is a two-component, polymer-modified, solvent-free water-based epoxy primer for enhanced adhesion to nonporous substrates before the application of MAPEI self-leveling materials. When mixed, *Primer WE* is purple for easy identification. It improves adhesion over smooth, nonabsorbent and difficult-to-bond-to substrates such as properly prepared ceramic tile, cement-based terrazzo, old cutback adhesive residue and approved plywood subfloors.

INDUSTRY STANDARDS AND APPROVALS

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials*.....	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings.....	1 point

* Using this MAPEI product helps contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

Primer WE improves adhesion over smooth, nonabsorbent and difficult-to-bond-to substrates such as ceramic tile, vinyl composition tile (VCT), cement or epoxy-based terrazzo, thin layers of old cutback adhesive residue and properly prepared engineer-approved wooden subfloors.

LIMITATIONS

- Do not install over substrates containing asbestos.
- *Primer WE* or an alternate MAPEI primer must be used before installation of toppings, *Ultraplan*® self-leveling underlayments, and *Novoplan*® self-leveling underlayments. See MAPEI's "Primers for Self-leveling Materials" product selection guide for concrete restoration systems.
- *Primer WE* is specially designed for use over smooth, nonabsorbent and difficult-to-bond-to substrates such as ceramic tile, VCT, cement and epoxy-based terrazzo, thin layers of old cutback adhesive residue and properly prepared engineer-approved wood subfloors. Do not use over porous concrete.
- *Primer WE* can only be used between the temperatures of 50°F and 95°F (10°C and 35°C). For temperatures above 85°F (29°C), follow ACI hot-weather application guidelines to ensure a successful installation.

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

SUITABLE SUBSTRATES

- Properly prepared and bonded ceramic tile, quarry tile, VCT, cement and epoxy terrazzo, and thin layers of old cutback adhesive residue installed over concrete
- For substrates with an MVER exceeding 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours, using a calcium chloride test (reference ASTM F1869), install *Planiseal*™ moisture-reduction barriers. Consult the floor-covering or coating manufacturer's recommendations regarding the maximum allowable moisture vapor emission rate (MVER) and retained moisture content in substrate.



- Engineer-approved plywood subfloors. Subfloors must be properly prepared, bonded, and free of dirt and dust (see “Product Application” section for details).
- Do not apply *Primer WE* over particleboard, chipboard, hardboard (Masonite), Luaun panels, metal, asbestos, gypsum-based patching materials or any other nondimensionally stable materials.

SURFACE PREPARATION

- All engineer-approved subfloors must be structurally sound, stable and solid.
- Thoroughly clean the surface of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and adhesive residue.
- Mechanically clean and prepare by shotblasting, scarifying or other engineer-approved methods. Remove all dust, debris and other contaminants before application.
- Substrate and ambient room temperatures must be between 50°F and 95°F (10°C and 35°C) before application. Temperatures must be maintained within this range for at least 72 hours after the installation of primer and finished material.
- Some mechanically prepared substrates may be more porous than others. For porous concrete, and alternate MAPEI primer, see MAPEI’s “Primers for Self-leveling Materials” product selection guide for concrete restoration systems.
- When applying *Primer WE* over engineered plywood subfloors, ensure that the floor meets a minimum deflection criteria of L/360 (live and dead loads considered). When applying *Primer WE* over an engineered wood subfloor before an underlayment installation involving ceramic tile, ensure the system conforms to the IRC (International Residential Code) for residential applications, the IBC (International Building Code) for commercial applications, or applicable building codes. Subfloors must be properly prepared, bonded, and free of dirt and dust. Always refer to the manufacturer’s instructions and respect the deflection requirements of the finished floor system.
- For substrates with an MVER exceeding 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours, using a calcium chloride test (reference ASTM F1869), install *Planiseal™ EMB* or *Planiseal VS* (moisture-reduction barrier).

Note: The maximum allowable MVER is always determined by the complete system installed, including primers, underlayment, floor coverings and sealers. The wide variety of substrate conditions, floor coverings and adhesives available requires careful analysis of the intended final floor use, as well as compliance with each manufacturer’s recommendations for MVER, retained moisture content and adhesive selections. Always install a number of correctly located test areas to ensure

compatibility, bond strength and performance of the complete flooring system.

- Once *Planiseal EMB* or *Planiseal VS* has cured, apply a single coat of *Primer WE* before the application of a self-leveling underlayment material.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

1. Stir individual components separately before combining.
2. Using a low-speed mixer (at about 300 to 500 rpm) and a “jiffy” mixing paddle, mix Part A with Part B thoroughly for 3 minutes. Part A is blue and Part B is pink; when mixed, primer becomes purple. Stop after about a minute to scrape material off sides of the mixing container. Mix to a smooth, homogenous consistency. Do not mix at high speeds, which can trap air within the mixed material.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Make sure concrete substrate and ambient room temperatures are between 50°F and 95°F (10°C and 35°C) before application. Temperatures must be maintained within this range for at least 72 hours after the installation of primer and finished material. In cooler conditions, use indirect auxiliary heaters to maintain ambient and substrate temperatures within the required range.
3. Pour mixed primer onto floor. Do not turn mixing container upside-down; some unmixed material from the container’s bottom, sides and seams may remain.
4. Apply primer onto substrate with a short-nap or sponge roller. Completely cover all areas of substrate that will receive underlayment material.
5. Apply *Primer WE* in a thin layer within 15 minutes to an hour of mixing. Discard excess or unused material after 1 hour. Avoid thick applications and remove any excess primer, avoiding puddling or ponding of primer and ensuring a consistent thin application. Only a thin application layer of *Primer WE* is necessary for a good bond.
6. Install MAPEI self-leveling underlayments after *Primer WE* has dried to a purple, transparent film (no milky spots) and is tacky to the touch. Lower substrate temperatures and/or humid conditions could extend drying time.

CLEANUP

Wash hands and tools with water promptly before material hardens. Cured material must be mechanically removed.

Product Performance Properties

Laboratory Tests	Results
Drying time after application	90 minutes to 3 hours
Pot life	Up to 1 hour (discard properly after 1 hour)
Flammability	Not applicable.

Shelf Life and Application Properties

Shelf life	2 years when stored in cool, dry place. Protect from freezing.
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CSI Division Classifications

Concrete Topping	03 53 00
Cast Underlayment	03 54 00

Packaging

Product Code	Size
45457000	Kit: 2 U.S. gals. (7,57 L)
45468000	Part A, Pail: 5 U.S. gals (18,9 L)
45568000	Part B, Pail: 5 U.S. gals (18,9 L)

Approximate Product Coverage (mixed material at 73°F [23°C])

Size	Coverage*
1 U.S. gal. (3,79 L)	200 to 400 sq. ft. (4,9 to 9,8 m ²)

* Coverage/thickness data shown are used for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of equipment, thickness applied and applications methods used.

Primer WE™



Refer to MAPEI's MSDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **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.**

We proudly support the following industry organizations:



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

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