



Primer L™

Advanced-Technology Acrylic Latex Primer for Concrete



Primer L is green for easy identification.

DESCRIPTION

Primer L is a concentrated, solvent-free acrylic primer used before the installation of underlayments and topping materials. It is green for easy identification. *Primer L* improves the bond between a properly prepared and profiled concrete substrate, and self-leveling underlayment or topping materials.

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

Use *Primer L* when applying a self-leveling underlayment or topping on a properly prepared and profiled concrete surface. For best results with *Ultratop*® and topping materials, use MAPEI's premium-grade primer *Primer E*.

LIMITATIONS

- Do not install over substrates containing asbestos.
- *Primer E* or *Primer L* must be used before the installation of toppings. For best results with toppings, use *Primer E*.
- *Primer L* or an alternate MAPEI primer must be used before the installation of *Ultratop*® self-leveling underlayments and toppings, and *Novoplan*® self-leveling underlayments.

- *Primer L* can only be used when concrete substrate and ambient room temperatures are between 50°F and 95°F (10°C and 35°C). Maximum open time to recoat or to apply topping and underlayment is 18 hours. Do not apply underlayment or topping before at least 3 hours of curing.

SUITABLE SUBSTRATES

- Properly prepared, sound, dimensionally stable, fully cured concrete at least 28 days old. Consult the floor-covering or coating manufacturer's recommendations regarding the maximum allowable moisture vapor emission rate (MVER) and retained moisture content in substrate. 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 MAPEI's *Planiseal*™ EMB or *Planiseal VS* moisture-reduction barrier. Consult MAPEI's Technical Services Department for specific primer and installation recommendations for *Planiseal EMB* and *Planiseal VS*.

Note: The maximum allowable MVER is always determined by the components of the complete system installed, including primers, underlayment/topping, floor coverings and sealers. The wide variety of substrate conditions, floor coverings and adhesives available today 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 several correctly located test areas to ensure compatibility, bond strength and performance of the complete flooring system.

- For plywood substrates, tile and other nonporous substrates, see MAPEI's "Primers for Self-Leveling Materials" product selection guide for concrete restoration systems.



SURFACE PREPARATION

- All substrates must be structurally sound, stable and solid. Concrete substrates must have tensile strength of at least 175 psi (1,21 MPa).
- Thoroughly clean the surface and remove substances that could interfere with the bond of the installation material. These include dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and adhesive residue.
- Concrete surfaces must be mechanically profiled and prepared by shotblasting, sandblasting, water-jetting, scarifying, diamond-grinding or other engineer-approved methods (reference ICRI CSP 3 or greater standards for acceptable profile height).
- Porous concrete may be subject to “outgassing,” the release of trapped air from concrete. Outgassing is visually undetectable and could cause surface defects with the installation.

Outgassing may be aggravated by mechanical preparation of the substrate. To address this, wait 48 hours after proper mechanical preparation of the substrate before applying the first coat of primer. Vacuum all dust from the surface before applying the primer. If a project does not permit waiting 48 hours, some surfaces may be primed with *Primer E*. Perform a mockup test to confirm results before pouring (see *Primer E* Technical Data Sheet for details). For use with underlayments and other finished floor systems – such as resilient, vinyl composition tile (VCT) and ceramic – consult the manufacturer regarding the maximum allowable moisture content and MVER prior to installation. For the best performance of finished floor systems that comprise self-leveling toppings, substrates exhibiting an MVER exceeding 5 lbs. (2,27 kg) should be treated by installing *Planiseal EMB* or *Planiseal VS*.

MIXING

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

1. Dilute 1 part of *Primer L* with 1 to 3 parts of clean potable water. Porous concrete may require additional coats (at the same dilution rate) to avoid surface defects in the finished leveler application. Do not apply at lower dilution rates (1-to-1, or 1-to-2); rather, use multiple coats at a 1-to-3 ratio for priming the substrate.
2. Stir using a low-speed mixer (at 300 to 500 rpm) and a “jiffy” mixing paddle. Do not overmix at high speeds, which could cause the product to foam.

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. Apply primer, working it into the substrate with a push broom or brush. Do not use roller to apply. Additional coats may be required over extremely porous concrete.
4. Broom out any puddles of primer. Install MAPEI self-leveling underlayments or topping materials after *Primer L* has turned to a green, transparent film (with no milky spots) after about 3 hours at 73°F (23°C). Lower substrate temperatures and/or humid conditions could extend the drying time before application of leveler. The maximum open time between coats or before applying a leveler is 18 hours.

Product Performance Properties

Laboratory Tests	Results
Drying time	About 3 hours
Flammability	Not applicable
Storage	Store in a cool, dry place. Protect from freezing

Shelf Life and Application Properties

Shelf life	2 years.
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CSI Division Classifications

Concrete Topping	03 53 00
Cast Underlayment	03 54 00

Packaging

Product Code	Size
36053000	Jug: 1 U.S. gal. (3,79 L) (4 jugs per case)
36068000	Pail: 5 U.S. gals. (18,9 L)

Approximate Product Coverage

Size	Coverage*
1 U.S. gal. (3,79 L) diluted at 3:1 (water:primer)	600 to 800 sq. ft. (55,7 to 74,3 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.

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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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