



# ECO Prim

# Grip™



## Multipurpose Bond-Promoting Primer



### DESCRIPTION

*ECO Prim Grip* is a ready-to-use, low-VOC, synthetic resin-based primer with bond-promoting silica aggregates suspended in a dispersion. It enhances the performance and adhesion of mortars to existing ceramics and difficult-to-bond-to substrates. Plus, it improves bonding of self-leveling underlayments (SLUs) and bonds of render coats over cementitious substrates. Suitable for a wide variety of substrates, *ECO Prim Grip* combines excellent versatility with an easy, low-odor application.

### FEATURES AND BENEFITS

- Ready-to-use gray latex, which is easy to apply with a roller or brush
- One-component, versatile primer for a wide variety of substrate conditions
- Single-coat application for faster turnaround and lower installation costs
- Low-odor and VOC compliance – great for use in interior, occupied environments
- Provides a rough keying surface ideal for polymer-modified mortars, render coats and leveling compounds, ensuring excellent bonding on smooth or low-absorptive substrates
- Easy handling and application properties
- Ideal primer for use with MAPEI's SLUs
- Provides excellent bond strength with resistance to moisture and aging
- No shotblasting or abrasion is required, thus eliminating the resulting dust.

### INDUSTRY STANDARDS AND APPROVALS

<u>LEED 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 product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

### WHERE TO USE

- Interior and exterior applications
- Use over properly prepared ceramic tile, porcelain tile, vinyl composition tile (VCT), natural stone or exterior-grade plywood substrates before applying polymer-modified mortars or SLUs.
- Use over substrates that have a residue of well-bonded old cutback adhesive, floor-covering adhesive or polyurethane adhesive. Refer to "Surface Preparation" section.
- Also, use to improve the bond of SLUs on nonabsorbent surfaces such as ceramic tile, poured epoxy floors, cement and epoxy terrazzo and natural-stone floors.
- Use before application of SLUs over properly prepared sound and stable concrete substrates, whether they are smooth and nonabsorbent or profiled and absorbent.
- Suitable for improving the bond of all types of cement render coats on concrete, brickwork and concrete block substrates



## LIMITATIONS

- Substrate and ambient temperatures must be between 50°F and 95°F (10°C and 35°C).
- Test the concrete substrate using a calcium chloride test (ASTM F1869) to ensure that the moisture vapor emission rate (MVER) is below 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours.
- Verify that the substrate is free of bond-inhibiting or bond-breaking materials, such as curing compounds and dust.
- For use in interior residential and commercial as well as exterior residential Environmental Classifications, including Res 1, 2, 3 and 6, and Com 1, 2 and 3 as outlined in the TCNA Handbook. Do not apply on wet substrates.
- Do not dilute.
- Do not install over any substrates containing asbestos.
- Do not install over concrete with curing compounds, sealed Saltillo tile or fiber-reinforced plastic (FRP) panels.
- The surface temperature of the prepared substrate must be at least 5°F (2,5°C) above the dew point to avoid condensation on the surface as *ECO Prim Grip* dries.
- Protect from freezing.
- When *ECO Prim Grip* and crack-isolation or waterproofing membranes are used in conjunction with SLUs, *ECO Prim Grip* would first be applied to the substrate; this would be followed by the leveler being applied over *ECO Prim Grip*, and the crack-isolation or waterproofing membrane being applied over the leveler.
- When *ECO Prim Grip* is used for substrate preparation prior to applying waterproofing or crack-isolation membranes, the textured surface of *ECO Prim Grip* must be smoothed first by applying an approved patching material before rolling on liquid-applied membranes or primers for sheet membranes. With the coarse surface of *ECO Prim Grip*, if liquid membranes are installed directly over the resulting aggregate surface, an extremely heavy coating of the membranes would be required to completely encapsulate the aggregate and deliver the specified mil thickness detailed for product performance. Peel-and-stick membranes need the smoothed surface to achieve the required level of adhesion for proper bonding.
- Do not use for installations subject to prolonged water immersion.

## SUITABLE SUBSTRATES

- Use before the application of polymer-modified mortars or SLUs over properly prepared sound, stable and nonabsorbent substrates, including ceramic tile, natural-stone floors, glass tile, cement and epoxy terrazzo, agglomerate marble, cement-based agglomerates, poured epoxy flooring, glazed cement masonry units, VCT, rigid fiberglass, well-bonded old cutback adhesive, floor-covering adhesive and

polyurethane adhesive residue, exterior-grade plywood on floors, smooth nonabsorbent concrete, absorbent concrete, steel-troweled concrete, concrete with up to 20% fly ash, dry shake hardener, radiant-heated floors, gypsum substrates, gypsum-based SLUs, *Planiseal™ EMB*, *Planiseal VS*, *Planiseal VS Fast* and plastic laminate countertops.

- Use before the application of render coats over concrete, brickwork and concrete block substrates.
- Use over epoxy flooring to install carpet – with *Ultrabond ECO® 185*, *Ultrabond ECO 285* or *Ultrabond ECO 220*.
- Stone tile backed with epoxy resin, epoxy resin with fiber reinforcement or epoxy resin with an aggregate broadcast can be primed with *ECO Prim Grip* for interior residential to light commercial and exterior residential applications. After allowing the bond-promoting primer to dry, MAPEI polymer-modified mortars meeting specifications referred to in the “Installing Tile or Natural Stone” section of this Technical Data Sheet are approved for use to install this type of stone. *ECO Prim Grip* is not recommended for exterior facades, installations subjected to commercial traffic or severe freeze-thaw conditions; instead, epoxy setting systems are required for such applications.

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

## SURFACE PREPARATION

- All substrates must be structurally sound, clean, dry, well-cured, solid, stable and free from oil, grease and cement laitance.
- Thoroughly clean all surfaces of any substance that could interfere with the bond of the installation material, including paint, asphalt, wax, oil, sealers, curing compounds, and poorly bonded or incompatible adhesive.
- Repair cracks in substrate before proceeding.
- Expansion and movement joints must be honored through the finished flooring system.
- Do not acid-etch surfaces before applying *ECO Prim Grip*.
- See MAPEI's "Surface Preparation Requirements" document in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

## MIXING

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

- Before use, stir to ensure that settling has not occurred during shipment or storage.
- *ECO Prim Grip* is ready to use; no dilution is required.

## Product Performance Properties

Laboratory Tests	Results
Polymer type	Acrylic
VOCs	21 g per L
pH	8 to 9
Viscosity	2,000 to 3,000 cps
Density	93.6 lbs. per cu. ft. (1,5 g per cm <sup>3</sup> )
Consistency	Pourable liquid
Color	Gray
Application temperature range	50°F to 95°F (10°C to 35°C)

## Shelf Life and Application Properties

Shelf life	2 years in original container. Protect from freezing during transport and storage.
Flash point (Seta)	> 212°F (100°C)
Window for application of SLU at 73°F (23°C)	2 to 3 hours of drying time up to 24 hours from application over porous substrate (concrete and wood); 2 to 5 hours of drying time up to 24 hours from application over nonporous substrate (ceramic, VCT)

## Packaging

Product Code	Size
36153000	Pail: 1 U.S. gal. (3,79 L) (4 pails per case)
36163000	Pail: 3.5 U.S. gals. (13,2 L)

## Approximate Coverage\*

Size	Coverage
Per 1 U.S. gal. (3,79 L)	150 to 300 sq. ft. (13,9 to 27,9 m <sup>2</sup> )
Per 3.5 U.S. gals. (13,2 L)	525 to 1,050 sq. ft. (48,8 to 97,5 m <sup>2</sup> )

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, concrete profile and porosity, type of equipment used, thickness applied, handling and application procedures.

## PRODUCT APPLICATION

- Apply product with a 3/8" (10 mm) nap roller or brush. Ensure that surface receives a complete, thin film of product.
- Polymer-modified mortar or render coat may be applied once *ECO Prim Grip* is dry. The minimum waiting time is from 15 to 60 minutes, depending upon the surrounding conditions and substrate porosity.
- If complete coverage hasn't been achieved or the original surface is visually showing through, a second coat can be applied after a longer period of time, typically after 2 to 3 hours.
- An SLU may typically be applied within 2 to 5 hours after *ECO Prim Grip* has been applied. Drying times will vary depending on porosity of surface, temperature and humidity. The maximum time allowed until installation of the SLU is 24 hours. Contact MAPEI's Technical Services Department for recommendations concerning SLUs.
- If *ECO Prim Grip* dries for more than 24 hours before application of the SLU, re-apply a second, undiluted coat and install the SLU within the correct application window.

# ECO Prim Grip™



## CLEANUP

Clean equipment immediately. While *ECO Prim Grip* is still fresh, it can be removed easily from floors, walls and tools with water. Mineral spirits can be used to remove primer that has dried on tools.

## INSTALLING FOLLOWUP MATERIALS

After the application of *ECO Prim Grip*, the following setting, self-leveling, membrane and patching materials may be applied:

### Tile and stone setting materials

- MAPEI polymer-modified mortars meeting ISO 13007 C2P1 and ANSI A118.11 standards or better
- Epoxy mortars meeting ISO 13007 R1 or R2 and ANSI A118.3 standards

### Patching materials

- *Planipatch*® with *Planipatch Plus*™
- *Planiprep*™ FF
- *Planiprep* SC
- *Mapecem*® *Quickpatch*

### Self-leveling materials

- *Novoplan*® 2
- *Novoplan Easy*
- *Ultraplan*® 1 Plus
- *Ultraplan Easy*
- *Planitex*™ SL 35

### Waterproofing and crack-isolation membranes

- *Mapelastic*™ CI (30 mils [0,76 mm] of minimum thickness)
- *Mapelastic AquaDefense* (30 mils [0,76 mm] of minimum thickness)
- *Mapeguard*™ 2 (rolling of membrane is mandatory)
- *Mapelastic HPG* (30 mils [0,76 mm] of minimum thickness)

## RELATED DOCUMENTS

Reference Guide: "Surface Preparation Requirements" for tile and stone installation systems	RGT0309*
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\* At [www.mapei.com](http://www.mapei.com)

Refer to the (M)SDS 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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**Edition Date:** April 12, 2013

PR: 6290 MKT: 6324