

# 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 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 underlays (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 required, thus eliminating the resulting dust

## WHERE TO USE

- Interior and exterior applications
- Use over ceramic tile, porcelain tile, vinyl composition tile (VCT), well-bonded sheet vinyl flooring, natural stone or exterior-grade plywood substrate 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 the "Surface Preparation" section below.
- Use to improve the bond of SLUs on nonabsorbent surfaces such as ceramic tile, cement terrazzo and nature-stone floors.
- Use before application of SLUs over 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 emissions 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 degrees Fahrenheit (2.8 degrees Celsius) above the dew point to avoid condensation on the surface as the *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* should first be applied to the substrate; this should be followed by the leveler being applied over *ECO Prim Grip*, and then the crack-isolation or waterproofing membrane being applied over the leveler.
- When *ECO Prim Grip* is used for substrate preparation before application of 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. Because of 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 water immersion, such as pools and spas.

## SUITABLE SUBSTRATES

- Use before application of polymer-modified mortars or SLUs over sound, stable and nonabsorbent substrates including ceramic tile, natural-stone floors, glass tile, cement terrazzo, cement-based agglomerates, glazed cement masonry units, VCT, well-bonded sheet vinyl flooring, rigid fiberglass, well-bonded old cutback adhesive, floor-covering adhesive residue, 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 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 followed by a minimum 1/16" (1.5-mm) layer of cement-based skimcoat or leveling compound above the highest point of the texture. Then apply *Ultrabond ECO® 185* or *Ultrabond ECO 220* to bond carpet.
- Stone tile coated with a backing of epoxy resin, of epoxy resin with fiber reinforcement or of epoxy resin with an aggregate broadcast can be primed with *ECO Prim Grip* for interior residential to light commercial and exterior residential applications. After the bond-promoting primer is allowed to dry, MAPEI polymer-modified mortars meeting specifications referred to in the "Installing Follow-up Materials" 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, stable, dry, clean, and free of any substance or condition that may reduce or prevent proper adhesion.
- 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 the substrate before proceeding.
- Expansion and movement joints must be honored though the finished flooring system.
- Do not acid-etch surfaces before applying *ECO Prim Grip*.
- See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

## MIXING

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

- 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 APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply *ECO Prim Grip* with a 3/8" (10 mm) nap roller or brush. Ensure that the surface receives a complete, thin film of product.
2. 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.
3. If completed 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.
4. An SLU may typically be applied within 2 to 5 hours after the *ECO Prim Grip* has been applied. Drying times will vary depending on surface porosity, temperature and humidity. The maximum time allowed until installation of the SLU is 24 hours.
5. 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.

## 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 may be used to remove primer that has dried on tools.

## INSTALLING FOLLOW-UP 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 classified as ISO 13007 C2P1 and meeting ANSI A118.11 standards or better
- Epoxy mortars classified as ISO 13007 R1 or R2 and meeting ANSI A118.3 standards

### Patching materials

- *Planipatch*<sup>®</sup> with *Planipatch Plus*<sup>®</sup>
- *Planiprep*<sup>®</sup> SC
- *Mapecem*<sup>®</sup> Quickpatch
- *Planitop*<sup>®</sup> 330 Fast
- *Planislope*<sup>TM</sup> RS

### Self-leveling materials

- *Novoplan*<sup>®</sup> 2
- *Novoplan Easy*
- *Ultraplan*<sup>®</sup> 1 Plus
- *Ultraplan Easy*

Waterproofing and crack-isolation membranes

- *Mapelastic® CI*, at a minimum thickness of 30 mils
- *Mapelastic AquaDefense*, at a minimum thickness of 30 mils
- *Mapeguard® 2* (rolling of membrane is mandatory)
- *Mapelastic WaterStop*, at a minimum thickness of 40 mils
- *Mapelastic HPG*, at a minimum thickness of 30 mils

**Product Performance Properties**

Laboratory Tests	Results
VOCs (Rule #1113 of California's SCAQMD)	0 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> )
Application temperature range	50°F to 95°F (10°C to 35°C)

**Shelf Life and Product Characteristics**

Shelf life	2 years in original, sealed container. Protect from freezing during transport and storage.
Polymer type	Acrylic
Consistency	Pourable liquid
Color	Gray

**Application Properties**

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 and VCT)

## Packaging

### Size

Pail: 1 U.S. gal. (3.79 L) (4 pails per case)

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.

## 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](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

#### 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](http://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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### Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
visit [www.mapei.com](http://www.mapei.com).  
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