



PRIMER T
All-Purpose Primer for Self-Leveling Underlayments

SECTION 03 54 00
CAST UNDERLAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products for cast underlayment for concrete, including the following:
 - 1. Primer.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete..

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years' experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 years' experience installing similar products.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.



PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Product Performance:

Polymer type	Acrylic
Percent solids	43% to 45%
VOCs	92 g per L

B. Acceptable Manufacturer:

MAPEI North America
1144 E. Newport Center Dr.; Deerfield Beach, FL 33442
Toll-Free for CRS Technical Service: Tel. 888-365-0614
Email: CRS@mapei.com
Web: www.mapei.com

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

D. Substitutions: Not permitted.

2.2 PRIMERS

A. Acrylic Primer: Low-VOC, water-base acrylic primer used before the installation of underlayment materials.

1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Primer T.

2.3 MISCELLANEOUS MATERIALS

A. Portland Cement: ASTM C150, Type I, II or III unless otherwise indicated.

B. Water: Potable.

2.4 MIXES

A. General: Mix products, in clean containers, according to manufacturer's written instructions.

1. Do not add water, thinners or additives unless recommended by manufacturer.
2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovels or trowels as units of measure.
3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 EXECUTION

3.1 EXAMINATION

A. Properly prepared and bonded tile, stone and VCT.

B. Properly prepared and installed 100%-solids epoxy moisture barriers.



- C. Epoxy cement terrazzo and poured epoxy flooring.
- D. Cement backer units (CBUs).
- E. Substrates with traces of well-adhered, water-resistant glue (cut-back adhesive, floor-covering adhesive or polyurethane adhesive).
- F. Dimensionally stable exterior-grade plywood.
- G. Properly prepared sound and stable concrete substrate, whether smooth and nonabsorbent or profiled and absorbent.
- H. Gypsum-based SLUs that are free of gypsum dust before application of cementitious SLUs.

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

3.2 PREPARATION

- A. All substrates must be interior, structurally sound, dry, solid and stable.
- B. Mechanically prepare existing ceramic, quarry and porcelain tile, as well as cementE. terrazzo.
- C. Thoroughly clean the surface with any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, form release agents, laitance, loose toppings, foreign substances and any other residues.
- D. Do not acid-etch surfaces before applying Primer T.
- E. When applying MAPEI underlayments to plywood or oriented strand board (OSB), the installation specifics (finished flooring, load, use and/or deflection), may require the use of MAPEI's Mapelath or diamond mesh (meeting the requirements of ASTM C847) on top of the primed surface before the application of the underlayment. In all cases, one can anticipate better performance when utilizing lath, particularly over OSB. Refer to the technical data sheet of Mapelath for installation instructions. Differential or excessive movement within a plywood substrate may lead to hairline cracks at plywood joints.

3.3 MIXING

- A. Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details. Over nonabsorbent surfaces: Apply Primer T undiluted. No mixing is required.
- B. Over porous, absorbent surfaces (typically absorbent, profiled concrete substrates): Dilute Primer T with water at a ratio of 1:1 to 2:1 (water to primer). Mix with water in a separate clean container with a low-speed mixer and paddle to a homogeneous consistency. Do not mix at high speed, which can cause product foaming.
- C. Over gypsum substrates: Dilute at a ratio of 2:1 (water to primer). Mix as indicated in step B and apply two coats if required by visual inspection. Ensure that the gypsum substrate is sound and free of gypsum dust.

3.4 INSTALLATION

Read all installation instructions thoroughly before installation.

- A. Apply the product with a 3/8" (10-mm) nap roller. Ensure that the surface receives a complete, thin film of product.
- B. Nonabsorbent substrates and wood require only one coat of undiluted Primer T.
- C. Absorbent and gypsum substrates may require more than one coat of diluted Primer T to



seal off the substrate and prevent substrate outgassing.

- D. The underlayment can typically be applied within 2 to 5 hours. Drying times will depend on the porosity of the surface, temperature and humidity. The maximum wait time for initial application is 24 hours.
- E. If the dried Primer T remains uncovered for more than 24 hours, re-apply a second, undiluted coat and install the underlayment within the correct application window. If the application window is missed again, remove the primer mechanically and start the installation on the clean surface.

END OF SECTION