

Planitop Basecoat

Polymer-Modified, Cementitious Adhesive and Basecoat



DESCRIPTION

Planitop® Basecoat is a high-performance, polymer-modified, Portland-cement-based, preblended mortar for nonstructural applications. *Planitop Basecoat* can be used as a basecoat for embedding mesh in EIFS systems or as a leveling coat on cement-based stucco before the application of an acrylic finish or waterproof coating. It can also be used as an adhesive to affix architectural foam shapes as well as EPS and XPS insulation boards. *Planitop Basecoat* is suitable for applications on concrete and masonry substrates, and properly prepared wood assemblies. *Planitop Basecoat* conforms to appropriate sections of ASTM C926, Standard Specification for Application of Portland Cement-Based Plaster.

FEATURES AND BENEFITS

- Pre-blended to ensure consistent performance and ease of mixing
- Creamy texture for ease of application
- Polymer modification improves water resistance and provides exceptional bond and flexural strength.
- Use as an adhesive to bond architectural foam shapes and EPS/XPS insulation boards to approved substrates.
- Smoothing over brown coats and crack-isolating fiberglass mesh

INDUSTRY STANDARDS AND APPROVALS

- Conforms to applicable sections of ASTM C926
- Confirms to Class A fire rating following ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials
- Meets code requirements of Chapter 25 of the International Building Code (IBC)

WHERE TO USE

- Use as a finish in cement-based stucco applications over locally approved and code-conforming lath assemblies.
- Use as a skimcoat for smooth, locally approved and code-conforming concrete or masonry surfaces before application of the finish coat.
- Use for bonding EPS/XPS insulation boards as well as foam shapes to approved substrates.
- Use to embed fiberglass mesh as the basecoat application in EIFS systems.

SUITABLE SUBSTRATES

As a basecoat over:

- Fiberglass mat-faced gypsum sheathing
- EPS/XPS insulation boards
- Foam shapes

As a skimcoat over:

- One-coat and two-coat stucco
- Brown coat
- Masonry block
- Poured-in-place and/or tilt-up concrete

As an adhesive to attach EPS/XPS insulation boards to:

- Fiberglass mat-faced gypsum sheathing
- Cement backer board
- Masonry block
- Poured-in-place and/or tilt-up concrete
- Other approved cementitious substrates

SURFACE PREPARATION

All surfaces to receive application must be structurally sound, clean and free of debris, dirt, dust, efflorescence, grease, oils, curing agents, paint, coatings and cleaning solutions. Ensure that all surfaces are smooth and free of any irregularities. Repair cracks and irregular surfaces with the appropriate patching material for the existing substrate before application of *Planitop Basecoat*.

Reference the following standards for surface preparation:

- ASTM D4258, Surface Cleaning of Concrete before Painting
- ASTM C926, Application of Portland Cement-Based Plaster
- ACI 524R, Guide to Portland Cement-Based Plastering
- ASTM C1063, Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
- ASTM D4261, Surface Cleaning of Concrete Unit Masonry for Coating

MIXING

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

1. Add about 1.25 to 1.4 U.S. gals. (4.73 to 5.30 L) of cool, clean water to the powder and mix to a thick, paste-like consistency. Use only slow-speed bucket mixers or mortar box for mixing. Do not exceed a mixing speed of 500 rpm. Keep the mixing time to a minimum (about 3 to 5 minutes). Do not overmix: Blend only long enough to attain a smooth, consistent mix.
2. Mortar should be allowed to stand ("slake") for 10 to 15 minutes, and then be remixed.
3. If the mix thickens beyond usability, do not attempt to remix. Instead, discard and mix a fresh batch.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. Place and finish the product according to the cited codes and the approved installation assembly.

Application as a basecoat for EIFS, or over scratch and brown coat

1. Apply *Planitop Basecoat* to the substrate at a minimum thickness of 1/16" (1.5 mm).
2. Completely embed an approved fiberglass reinforcing mesh into this coat and trowel smooth, ensuring that the mesh is completely covered.
3. Finish with a stucco or wood trowel.

Application as a skimcoat

1. Apply *Planitop Basecoat* to the area needing to be leveled at a maximum thickness of 5/8" (16 mm) per coat. Application methods will vary based on job conditions.
2. Finish with a stucco or wood trowel.

Application as an adhesive

1. Apply *Planitop Basecoat* to the back of the insulation board with an approved notched trowel in vertical ribbons.
2. Apply the side of the insulation board that has been coated with *Planitop Basecoat* to the substrate. Ensure that the entire piece of insulation board has made contact with and is firmly attached to the substrate.
3. Allow *Planitop Basecoat* to set for at least 24 hours before working on the insulation board.

Application with foam shapes

- Apply *Planitop Basecoat* to the back of the foam shape with an approved notched trowel, ensuring a consistent coat of at least 1/16" (1.5 mm).

LIMITATIONS

- Follow all local building codes, and associated ASTM codes for plaster/stucco installations.
- Ambient, substrate and material temperatures should be between 40°F and 90°F (4°C and 32°C) during application and for 48 hours after application.
- Do not add any other materials to the product mixture.
- Do not install *Planitop Basecoat* over construction joints.
- Not for use as a finish coat. Finish with a suitable waterproofing finish coat per local codes.
- Do not add any more water than prescribed.
- Do not use a mixer that exceeds 500 rpm.
- Do not saturate the wall with water during preparation.
- Do not apply a cement-based stucco topcoat to *Planitop Basecoat* without the use of an acrylic bonding agent.

Product Performance Properties

Laboratory Tests	Results
Compressive strength – ASTM C109	> 2,000 psi (13.8 MPa) at 7 days > 2,500 psi (17.2 MPa) at 28 days
VOC content	0 g per L
Fire performance – ASTM E84, Class A	
Flame Spread Index (FSI)	0
Smoke Developed Index (SDI)	0
Tensile bond strength – ASTM C297	150 psi (1.03 MPa)* at 14 days of curing

* Average of five specimens. All failures occurred in the substrate.

Shelf Life

1 year at 73°F (23°C) in original, unopened packaging

Store bags in a cool and dry location, away from direct contact with the ground and away from direct sunlight.

CSI Division Classification

Portland Cement Plaster	09 24 00
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Packaging

Size
Bag: 50 lbs. (22.7 kg)

Approximate Coverage**

per 50 lbs. (22.7 kg)

Thickness	Coverage
1/16" (1.5 mm)	80 to 100 sq. ft. (7.43 to 9.29 m ²)

*** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and placement techniques.*

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (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 (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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. **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.**

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For the most current product data and BEST-BACKEDSM warranty information,
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