

# Planiprep PSC

Moisture-Resistant, Fast-Drying Patch and Skimcoating Compound



## DESCRIPTION

*Planiprep® PSC* is a fast-drying, cement-based, fiber-reinforced, polymer-modified patch and skimcoating compound designed for preparing concrete and wood substrates for flooring installation.

## FEATURES AND BENEFITS

- High-polymer-modified
- Fiber-reinforced
- Resistant to high moisture
- Fast-drying

## WHERE TO USE

- For smoothing and repairing of interior floors before installation of floor finishes

## LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior applications only
- Use when the substrate temperature is between 40°F and 90°F (4°C and 32°C).
- Do not use warm or hot water to mix *Planiprep PSC*.
- Acclimate *Planiprep PSC* to jobsite temperature conditions before use.
- Do not use in areas prone to hydrostatic pressure.

- Do not apply over standing water.
- Do not install when the moisture vapor emission rate (MVER) exceeds 25 lbs. per 1,000 sq. ft. (11.3 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 100% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not install unless the surface temperature of the substrate is 5 degrees F (2.8 degrees C) above the dew point.
- Do not install over any adhesive residues if the concrete slab exhibits high moisture readings.

## SUITABLE SUBSTRATES

- Concrete (at least 28 days old) installed per ASTM F710 guidelines
- Cement terrazzo
- Exterior-grade plywood and other approved wood substrates (per the flooring manufacturer's recommendations)
- Cement-based, self-leveling underlayments and patching compounds
- Properly primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Radiant-heat systems that have been properly installed and operating at a surface temperature no higher than 85°F (29°C)

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

## SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete substrate must have some open porosity, with an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of at least #1.

See the "Surface preparation requirements" reference guide in the Floor Covering Installation Systems section of MAPEI's Website.

## MIXING

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

1. Pour 1 part of cool, clean, potable water into a clean pail and then add 2 to 2.5 parts of *Planiprep PSC* powder while slowly stirring. Be sure not to add more than the maximum amount of water.
2. Mix with a drill (at about 600 to 900 rpm) to a homogenous, lump-free consistency for 1 to 2 minutes. Do not overmix.
3. Do not mix more material than can be applied in up to 15 minutes, depending on temperature and humidity.

## PRODUCT APPLICATION

Read all instructions thoroughly before installation. Before application, test *Planiprep PSC* on a small sample area to ensure the desired results.

1. Immediately after mixing, place *Planiprep PSC* onto the surface and work it in with a flat-edge steel trowel.
2. Trowel to the desired surface finish shortly after placement.

## CURING AND PROTECTION

- *Planiprep PSC* is self-curing. Do not use a damp-curing method, or curing or sealing compounds.
- Avoid walking on the installed surface for at least 30 minutes after installation, depending upon temperature and humidity conditions.
- Do not expose *Planiprep PSC* to rolling dynamic loads, such as forklifts or scissor lifts, for at least 12 hours after installation.

## CLEANUP

- Wash hands and tools with water promptly before the material hardens. Cured material must be mechanically removed.

### Product Performance Properties

| Laboratory Tests                            | Results                              |
|---|--------------------------------------|
| Density (wet)                               | 100 lbs. per cu. ft. (1.60 kg per L) |
| pH (wet)                                    | About 11                             |
| VOC content                                 | 0 g per L                            |
| Compressive strength – ASTM C109 (modified) |                                      |
| 4 hours                                     | > 1,425 psi (9.83 MPa)               |
| 28 days                                     | 3,250 psi (22.4 MPa)                 |
| Flexural strength – ASTM C348 (modified)    |                                      |
| 28 days                                     | ≥ 855 psi (5.90 MPa)                 |

### Shelf Life and Product Characteristics

|                |   |
|----------------|---|
| Shelf life     | 1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area |
| Physical state | Powder  |
| Color          | Light gray  |

## Application Properties

at 73°F (23°C) and 50% RH

| Mixing ratio  | 1 part of water to about 2 to 2.5 parts of <i>Planiprep PSC</i> powder |
|---|--|
| Application temperature range   | 40°F to 90°F (10°C to 35°C)  |
| Application thickness   | Featheredge to 1/2" (12 mm)  |
| Working time*   | < 15 minutes   |
| Final set (before light foot traffic) at a thickness of 1/4" (6 mm)                             | 30 minutes   |
| Time for installing floor coverings at skimcoat thicknesses < 1/16" (1.5 mm)                    | 30 minutes   |
| Time for installing floor coverings at skimcoat thicknesses > 1/16" (1.5 mm) but < 1/2" (12 mm) | 90 minutes   |

\* Working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

## Packaging

| Size                   |
|------------------------|
| Bag: 10 lbs. (4.54 kg) |
| Bag: 20 lbs. (9.07 kg) |

## Approximate Coverage\*\*

| Product Amount    | Coverage  |
|-------------------|---|
| 10 lbs. (4.54 kg) | 0.13 cu. ft. (0.0037 m <sup>3</sup> ), or 25 sq. ft. (2.32 m <sup>2</sup> ) at 1/16" (1.5 mm) |
| 20 lbs. (9.07 kg) | 0.26 cu. ft. (0.0074 m <sup>3</sup> ), or 50 sq. ft. (4.65 m <sup>2</sup> ) at 1/16" (1.5 mm) |

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

## 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-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com).

## 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](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

### MAPEI Headquarters of North America

1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### Technical Services

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

### 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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