



# Planipatch®

**Fast-Setting, Polymer-Modified, Cement-Based Patching Compound**



## DESCRIPTION

*Planipatch* is an ultra fast-drying, self-curing, polymer-modified, cement-based patching compound that rapidly develops high compressive strength. When *Planipatch* is mixed with *Planipatch Plus*, the *Planipatch Plus* System can be used as an embossing leveler or as a patch to fill voids over properly prepared vinyl sheet goods, vinyl composition tile (VCT) and cement terrazzo before the direct glue-down installation of floor coverings.

## FEATURES AND BENEFITS

- Fast-setting
- Polymer-modified
- Easy to apply

## INDUSTRY STANDARDS AND APPROVALS

LEED (Version 3.0) Points Contribution LEED Points

MR Credit 5, Regional Materials\* .....Up to 2 points

IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants ..... 1 point

*\* Using this MAPEI 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

- For skimcoating unfinished, rough-textured concrete and approved wood underlayments
- For filling minor voids, holes and cracks in concrete and approved wood underlayments

- Mix *Planipatch* with *Planipatch Plus* and use as an embossing leveler or as a patch to fill voids over properly prepared existing cement terrazzo, ceramic tile, VCT, or non-cushioned, fully adhered residential sheet vinyl flooring, cutback and carpet adhesive residues.
- Interior residential (rental apartments, condominiums, homes)
- Interior commercial (office buildings, hotel rooms and hallways, restaurants, cafeterias)
- Interior heavy commercial (hotel lobbies, convention centers, airports, shopping malls, grocery stores, department stores)
- Interior institutional (hospitals, schools, universities, libraries, government buildings)

See "Limitations" section below.

## LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use as a final wear surface.
- Use only when the substrate and ambient temperatures are between 50°F and 100°F (10°C and 38°C).
- For interior installations only
- Do not apply over self-stick tile, presswood, particleboard, flakeboard or similar types of dimensionally unstable substrates.
- Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). Do not exceed the flooring manufacturer's recommendations for MVER. When MVER is



above 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours, *Planipatch Plus* is recommended for optimum performance.

- Do not install when the relative humidity (RH) exceeds 85%, when using the in-situ probe method (ASTM F2170). Do not exceed the flooring manufacturer's recommendations for RH.
- Do not use to fill existing expansion control joints.
- When leveling large areas, use as a thin application only. Refer to Technical Data Sheets (TDSs) at [www.mapei.com](http://www.mapei.com) for use of self-leveling products.

## SUITABLE SUBSTRATES

When mixed with water or diluted *Planipatch Plus*

- Concrete
- APA or CANPLY Group 1 exterior-glue plywood
- Other approved wood underlayments (per flooring manufacturer's recommendations)

When mixed with *Planipatch Plus* (full-strength)

- Properly prepared cutback and carpet adhesive residue
- Existing, properly prepared cement terrazzo
- Existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- A single layer of properly prepared, fully bonded felt-backed sheet vinyl

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, epoxy adhesives, urethane adhesives, and any other substance or condition that may prevent or reduce adhesion.
- Concrete must free of any negative hydrostatic pressure and/or excessive moisture.
- Refer to MAPEI's "Surface Preparation Requirements" document for floor-covering installation systems at [www.mapei.com](http://www.mapei.com).

## MIXING

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

- See TDS for *Planipatch Plus* for detailed instructions on diluting *Planipatch Plus* with water.
- *Planipatch* can be mixed with the following liquids, depending on the application:

- Clean, cool, potable water
- Diluted *Planipatch Plus* (1 part *Planipatch Plus* to 3 parts water)
- Full-strength *Planipatch Plus*

## Mixing Ratios for *Planipatch* powder

For 4.4 lbs. (2.0 kg) bag

- (A) Water to add..... 20 to 22 U.S. oz. (591 to 651 mL)
- (B) Diluted *Planipatch Plus*  
to add..... 22 to 25 U.S. oz. (651 to 739 mL)
- (C) Full-strength *Planipatch Plus*  
to add..... 25 to 27 U.S. oz. (739 to 798 mL)

For 10 lbs. (4.54 kg) bag

- (A) Water to add..... 45 to 50 U.S. oz. (1,33 to 1,48 L)
- (B) Diluted *Planipatch Plus*  
to add..... 45 to 57 U.S. oz. (1,33 to 1,69 L)
- (C) Full-strength *Planipatch Plus*  
to add..... 57 to 62 U.S. oz. (1,69 to 1,83 L)

Note: Due to the short pot life of *Planipatch*, it is not recommended to mix large quantities of *Planipatch* at one time.

Single-Coat Application – When skimcoating and filling minor voids in concrete and wood substrates, mix *Planipatch* with water (A) or diluted *Planipatch Plus* (B).

Two-Coat Application – When using *Planipatch* as an embossing leveler or to patch over properly prepared cement terrazzo, ceramic tile, existing VCT or existing non-cushioned, fully adhered residential sheet vinyl flooring, mix *Planipatch* with full-strength *Planipatch Plus* (C) for the first coat. Then mix *Planipatch* with diluted *Planipatch Plus* (B) for a second coat.

1. Some settling may occur during transportation. Dry-blend *Planipatch* powder before mixing.
2. Into a clean mixing container, pour 1 part liquid (A, B or C). Gradually add 2-1/2 to 3 parts *Planipatch* powder by volume while slowly mixing.

Note: Water temperature should not exceed 73°F (23°C). Higher water temperature will shorten pot life.

3. Do not overwater.
4. Use a low-speed mixer (at about 300 rpm) to mix for 2 minutes at maximum. Mix thoroughly to a smooth, lump-free consistency.
5. Do not mix more material than can be applied within 8 to 10 minutes.
6. Avoid air entrapment and prolonged mixing, which will shorten pot life.

## PRODUCT APPLICATION

Single-Coat Application Method

1. Select an appropriate flat-edged steel trowel.
2. Immediately apply mixed *Planipatch* to the substrate, according to the desired thickness – up to 1/2" (12 mm) maximum when mixed with water (A), or 1/4" (6 mm)

**Shelf Life and Application Properties** at 73°F (23°C) and 50% relative humidity

Pot life	8 to 10 minutes
Drying time required before floor-covering installation*	60 to 90 minutes, or once the product is completely dry
Compressive strength, 28 days (ASTM C109)	> 3,500 psi (24,1 MPa)
Cleanability	With water while still fresh
Shelf life	1 year when stored in original container at 73°F (23°C) in a heated area

\* Drying time and open/working time may vary based on temperature, humidity, substrate porosity, thickness of application and jobsite conditions.

**Packaging**

Product Code	Size
10940000 (Canada only)	Bag: 4.4 lbs. (2,0 kg)
0080010 (U.S.); 1091000 (Canada)	Bag: 10 lbs. (4,54 kg)
10922000 (Canada only)	Bag: 22 lbs. (9,98 kg)
0080025 (U.S. only)	Bag: 25 lbs. (11,3 kg)
0080045 (U.S. only)	Pail: 45 lbs. (20,4 kg)

**Approximate Product Coverage**

Size	Thickness Applied	Coverage*
4.4 lbs. (2 kg)	1/32" (1 mm)	17 to 25 sq. ft. (1,58 to 2,32 m <sup>2</sup> )
	1/8" (3 mm)	4 to 6 sq. ft. (0,37 to 0,56 m <sup>2</sup> )
10 lbs. (4,54 kg)	1/32" (1 mm)	40 to 56 sq. ft. (3,72 to 5,20 m <sup>2</sup> )
	1/8" (3 mm)	10 to 14 sq. ft. (0,93 to 1,30 m <sup>2</sup> )
22 lbs. (9,98 kg)	1/32" (1 mm)	80 to 123 sq. ft. (7,43 to 11,4 m <sup>2</sup> )
	1/8" (3 mm)	20 to 31 sq. ft. (1,86 to 2,88 m <sup>2</sup> )
25 lbs. (11,3 kg)	1/32" (1 mm)	100 to 140 sq. ft. (9,29 to 13,0 m <sup>2</sup> )
	1/8" (3 mm)	25 to 35 sq. ft. (2,32 to 3,25 m <sup>2</sup> )
45 lbs. (20,4 kg)	1/32" (1 mm)	180 to 251 sq. ft. (16,7 to 23,3 m <sup>2</sup> )
	1/8" (3 mm)	45 to 62.8 sq. ft. (4,18 to 5,83 m <sup>2</sup> )

\* Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions and actual thickness applied.

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maximum when mixed with diluted *Planipatch Plus* (B). Blend into the surrounding area and finish to the required smoothness.

3. Allow at least 60 minutes to dry. Finish with the final floor covering chosen.

## Two-Coat Application Method

1. Select an appropriate flat-edged steel trowel.
2. First coat: Immediately apply mixture of *Planipatch* and full-strength *Planipatch Plus* (C) to the substrate according to a desired thickness, from 1/16" to 1/8" (1,5 to 3 mm). Blend into the surrounding area and finish to the required smoothness. Allow to dry completely.
3. Second coat: Immediately apply mixture of *Planipatch* and diluted *Planipatch Plus* (B) to the substrate according to the desired thickness, from 1/32" to 1/4" (1 to 6 mm). Ensure that all areas with a first coat are completely covered by a second coat. Allow at least 60 minutes to dry; thicker applications may require longer drying times before the application of flooring adhesives.

## CLEANUP

Clean tools and equipment with water while product is still wet/fresh. Use mechanical means to remove cured product.

## PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before work begins.
- Protect from traffic, dirt or dust from other trades until the final installation of the floor covering.

- Because temperature and humidity (during and after tile installation) affect the final curing time, allow for extended periods of cure and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.

## RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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\* At [www.mapei.com](http://www.mapei.com)

Refer to the SDS for specific data related to health and safety as well as product handling.

## 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 or 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,

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