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

- 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)

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 m²) 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 m²) 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 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.

**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.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot life</td>
<td>8 to 10 minutes</td>
</tr>
<tr>
<td>Drying time required before floor-covering installation*</td>
<td>60 to 90 minutes, or once the product is completely dry</td>
</tr>
<tr>
<td>Compressive strength, 28 days (ASTM C109)</td>
<td>&gt; 3,500 psi (24.1 MPa)</td>
</tr>
<tr>
<td>Cleanability</td>
<td>With water while still fresh</td>
</tr>
<tr>
<td>Shelf life</td>
<td>1 year when stored in original container at 73°F (23°C) in a heated area</td>
</tr>
</tbody>
</table>

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

### Packaging

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>109400000 (Canada only)</td>
<td>Bag: 4.4 lbs. (2.0 kg)</td>
</tr>
<tr>
<td>0080010 (U.S.); 1091000 (Canada)</td>
<td>Bag: 10 lbs. (4.54 kg)</td>
</tr>
<tr>
<td>10922000 (Canada only)</td>
<td>Bag: 22 lbs. (9.98 kg)</td>
</tr>
<tr>
<td>0080025 (U.S. only)</td>
<td>Bag: 25 lbs. (11.3 kg)</td>
</tr>
<tr>
<td>0080045 (U.S. only)</td>
<td>Pail: 45 lbs. (20.4 kg)</td>
</tr>
</tbody>
</table>

### Approximate Product Coverage

<table>
<thead>
<tr>
<th>Size</th>
<th>Thickness Applied</th>
<th>Coverage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4 lbs. (2 kg)</td>
<td>1/32&quot; (1 mm)</td>
<td>17 to 25 sq. ft. (1.58 to 2.32 m²)</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; (3 mm)</td>
<td>4 to 6 sq. ft. (0.37 to 0.56 m²)</td>
</tr>
<tr>
<td>10 lbs. (4.54 kg)</td>
<td>1/32&quot; (1 mm)</td>
<td>40 to 56 sq. ft. (3.72 to 5.20 m²)</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; (3 mm)</td>
<td>10 to 14 sq. ft. (0.93 to 1.30 m²)</td>
</tr>
<tr>
<td>22 lbs. (9.98 kg)</td>
<td>1/32&quot; (1 mm)</td>
<td>80 to 123 sq. ft. (7.43 to 11.4 m²)</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; (3 mm)</td>
<td>20 to 31 sq. ft. (1.86 to 2.88 m²)</td>
</tr>
<tr>
<td>25 lbs. (11.3 kg)</td>
<td>1/32&quot; (1 mm)</td>
<td>100 to 140 sq. ft. (9.29 to 13.0 m²)</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; (3 mm)</td>
<td>25 to 35 sq. ft. (2.32 to 3.25 m²)</td>
</tr>
<tr>
<td>45 lbs. (20.4 kg)</td>
<td>1/32&quot; (1 mm)</td>
<td>180 to 251 sq. ft. (16.7 to 23.3 m²)</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; (3 mm)</td>
<td>45 to 62.8 sq. ft. (4.18 to 5.83 m²)</td>
</tr>
</tbody>
</table>

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

RELATED DOCUMENTS

<table>
<thead>
<tr>
<th>Reference Guide: Surface Preparation Requirements for floor-covering installation systems</th>
<th>RGF0409*</th>
</tr>
</thead>
<tbody>
<tr>
<td>* At <a href="http://www.mapei.com">www.mapei.com</a></td>
<td></td>
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</tbody>
</table>

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. 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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