

Mapefloor Patch

Thixotropic Epoxy Paste Adhesive



FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapefloor™ Patch is a two-component, solvent-free, 100%-solids epoxy patching adhesive for skimming and repair of horizontal, vertical or overhead interior concrete. *Mapefloor Patch* exhibits excellent bond strength and chemical resistance.

FEATURES AND BENEFITS

- Good bond strength to concrete substrates
- Fast-setting paste
- 100%-solids
- Provides high chemical resistance
- Good for both skimming and repairing of interior concrete surfaces, including vertical and horizontal surfaces

WHERE TO USE

- *Mapefloor Patch* should be used for vertical and overhead repair of interior concrete substrates.

LIMITATIONS

- Do not use for sealing cracks under hydrostatic pressure.
- Do not apply *Mapefloor Patch* on substrates that have not received adequate preparation.

- Do not dilute *Mapefloor Patch* with solvents or water.
- Do not apply *Mapefloor Patch* on dusty or crumbly substrates.
- Do not apply *Mapefloor Patch* on substrates with oil, grease or dirt.
- Do not expose the mixed product to sources of heat.
- If harsh substances come into contact with *Mapefloor Patch*, remove them immediately.
- Protect the product from water, dampness and condensation for at least 24 hours after application.
- The surface moisture should be confirmed not to be greater than 4% using the test method of ASTM E1907. Do not apply *Mapefloor Patch* on substrates with water vapor transmission values at higher than 3 lbs. per 1,000 sq. ft. (1.36 kg per 92.9 m²) per 24 hours.
- Do not apply *Mapefloor Patch* if within 5 degrees F (3 degrees C) higher than the dew point.
- Do not apply in areas where the ambient relative humidity is greater than 85% per test method from ASTM F2170.
- Do not install unless the ambient and substrate temperatures are within the range of 61°F and 86°F (16°C and 30°C).

SUITABLE SUBSTRATES

- Properly prepared substrates such as concrete cementitious screeds or polymer-modified self-leveling screeds; they must be sound and dry, with a minimum compressive strength of greater than 3,600 psi (24.8 MPa) and a minimum pull-off strength of greater than 200 psi (1.38 MPa).
- Before application of a *Mapefloor Patch*, determine the substrate's moisture content as well as the relative humidity (RH) and dew point. Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- Surfaces to be treated must be flat, clean, sound and solid, dry and must not have capillary rising dampness.
- The surface of the floor must be prepared mechanically. Any cement laitance, dirt, crumbling, weak or detached portions present on the surface to be treated must be removed using suitable mechanical process (e.g., shotblasting or diamond grinding) to achieve a concrete surface profile (CSP) of #2 to #4 according to the International Concrete Repair Institute (ICRI) classification, and to make the surface slightly rough and absorbent.
- Before applying *Mapefloor Patch*, all traces of dust must be eliminated from the surface with a vacuum cleaner equipped with a brush attachment

MIXING

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

1. To ensure that all solids are evenly dispersed, mix Part A of *Mapefloor Patch* mechanically for about 1 minute.
2. Pour all of the Part B (hardener) into the Part A container. Mix thoroughly for at least 1 minute using a low-speed drill (at 300 to 400 rpm) until a uniform, lump-free mix has been achieved.

Note: Smaller amounts can be mixed at a 1:1 ratio by volume. Any unused material must be sealed immediately.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply material with a trowel, spatula or squeegee onto concrete substrates, bringing it to elevation by the desired application techniques.

CLEANUP AND MAINTENANCE

- Clean all tools and equipment with water or a suitable solvent, such as xylene. Hardened or cured material must be mechanically removed.

Horizontal application of Mapefloor Patch with spatula



Product Performance Properties

Laboratory Tests	Results
Compressive Strength – ASTM C579	5,270 psi (36.3 MPa)
Tensile Strength – ASTM D638	1,469 psi (10.1 MPa)
Flexural Strength – ASTM C580	2,942 psi (20.3 MPa)
Pull-off Strength – ASTM D7234	> 396 psi (> 2.73 MPa) failure in concrete substrate
Surface hardness – ASTM D2240	
24 hours	62
7 days	69
28 days	70
Pot Life	45 minutes
Solid Content	100%
VOC content (SCAQMD Rule 1168 category)	< 70 g/L
Typical VOC content per SCAQMD Rule 1168 testing methods	14 g/L
Dry to Recoat Time – ASTM D1640	5 to 7 hours

Shelf Life and Product Characteristics

(before mixing)

Shelf life and storage	2 years when stored in original, unopened packaging, in a dry area. Store at between 41°F to 86°F (5°C to 30°C). Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.
Physical state	Part A: Paste Part B: Paste
Color	Part A: White Part B: Gray

Packaging

Size	
Mapecfloor Patch unit: 5.28 U.S. gals. (20 L)	Part A: 2.64 U.S. gals. (10 L) Part B: 2.64 U.S. gals. (10 L)
Mapecfloor Patch unit: 1 US. gal. (3.78 L)	Part A: 0.50 U.S. gals. (1.89 L) Part B: 0.50 U.S. gals. (1.89 L)

Coverage rates may vary according to substrate conditions and setting practices. Consult MAPEI's Technical Services Department for installation recommendations regarding use of this product.

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.

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.**

CONTACT INFORMATION

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For the most current product data and BEST-BACKEDSM warranty information, visit www.mapei.com.

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