TechPatch™ MP Multipurpose Rapid Setting Skim Coat & Floor Patch



1. **Product Name**

TechPatch™ MP Multipurpose Rapid Setting Skim Coat & Floor Patch

2. **Product Description**

TechPatch MP is a fast setting, calcium aluminate compound that provides a smooth finish on interior subfloors prior to the installation of a wide variety of floor coverings. Mix with water only to patch, level or skim coat concrete up to 1/2 in (12 mm) thick per application. Install floor coverings in as little as 30 – 90 minutes.

Key Features

- Patches and smooths interior subfloors
- Apply from featheredge to 1/2 in
- Install flooring in as little as 30 - 90 minutes

Uses

Suitable as an Underlayment for:

- Carpet
- Wood, parquet
- Vinyl composition tile (VCT)
- Sheet vinyl flooring
- Laminated flooring
- Pavers, brick
- Stone, terrazzo tile

Suitable Substrates

- Absorbent concrete

Composition of Product

Tech Patch MP is a blend of calcium aluminate cement, inorganic fillers and polymers

Benefits of Product in the Installation

- Quick-setting formula permits floor covering installation in as little as 30 - 90 minutes
- Patches and levels concrete 1/2 in (12 mm)

Limitations to the Product

- Interior use only.
- Do not bond to plank hardwood, particleboard, parquet, cushion or sponge back vinyl flooring, or other dimensionally unstable substrates.
- Not for use as a finished surface/wear layer.
- Do not use under moisture mitigation systems.
- Do not use when substrate temperature is below 50˚F (10˚C).
- Not for use in areas with continuous water exposure (ie: showers, swimming pools, spas, water features and fountains).
- See Flooring Manufactures recommendations for Relative Humidity limitations and Moisture Vapor Emissions limitations.

Packaging

25 lb (11.34 kg) Bags

3. **Technical Data**

Applicable Standards

ASTM International (ASTM)

- ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C1933 Standard Test Methods for Floor Patching and Skim Coating Compounds Containing Hydraulic Cements
- ASTM C1857 Standard Test Method for Evaluating the Adhesion (Pull-Off) Strength of Concrete Repair and Overlay Mortar
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes1
- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM F3191 Field Determination of Water Absorption

Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171.

American National Standards Institute (ANSI) ANSI A108.01 and A108.02 of the American National Standards for the Installation of Ceramic Tile

Technical Chart

Test	Method	Value
Vicat Set Time	ASTM C191	
Initial Set		Approx. 15 Minutes
Final Set		Approx. 20 Minutes
Compressive Strength	ASTM C1933	
1 Day		>1500 psi (10.3 Mpa)
7 Days		>3500 psi (24.1Mpa)
28 Days		>3500 psi (24.1 Mpa)
Adhesion	ASTM C1857	
Unprimed		>200 psi (1.38 Mpa)
Primed		>250 psi (1.72 Mpa)

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute to LEED® certification.

Complies with CA Section 01350 and CDPH V1.2-2017.

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4. Instructions

General Surface Prep

Always wear proper protective equipment when handling the product, including IMPERVIOUS GLOVES, such as nitrile, safety glasses, and a NIOSH N95 respirator (mask).

Surfaces must be structurally sound, clean, dry, and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Expansion joints should never be bridged with patching material. Do not sand flooring materials containing asbestos.

Ambient temperature, surfaces and materials should be maintained at a temperature above 50° F (10° C) or below 100° F (38° C) for 72 hours.

Bonding To Concrete Surfaces

Contaminants or curing compounds should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to moisture beyond the floor covering manufacturers' limits or hydrostatic pressure. All concrete surfaces must be able to achieve tensile bond strengths in excess of 200 psi (1.4 n/mm²). For more information about concrete curing compounds see CUSTOM Building Products Technical Bulletin # 92 available on the website under Reference Library.

Mixing Ratios

Mix 4.0-4.25 qt (3.8-4.0- L) clean, cool water to a 25 lb (11.34 kg) bag of Tech Patch MP or for smaller applications mix approximately 1 part liquid to 3 parts powder to achieve a honey-like consistency.

Mixing Procedures

Slowly add powder to liquid while mixing with a high speed drill (650 RPM or more) and mixing paddle to a lump-free consistency. Mix only amounts that can be applied in 5-10 minutes depending on surface porosity and temperatures.

Application of Product

Apply material into all voids up to 1/2" (12 mm) thickness using a broad knife or trowel and finish flush with surface. For skim coating, use a smooth edged trowel to flatten the surface area. If an area more than 5 ft. (1.5 M) in diameter is required, use an appropriate CustomTech™ self-leveling underlayment.

Curing of Product

Allow to dry for 30 - 90 minutes. Drying time can vary with thickness, temperature and humidity.

Cleaning of Equipment

Clean with water before material dries.

Health Precautions

DANGER: CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. PROLONGED OR REPEATED INHALATION OF DUST MAY CAUSE LUNG DAMAGE OR CANCER. DO NOT BREATHE DUST OR SWALLOW. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization. A NIOSH N95 respirator (mask) is recommended, especially in poorly ventilated areas, when use is frequent, or when permissible exposure limits may be exceeded. Immediately wash contaminated body and clothing thoroughly. If in eyes: rinse cautiously with water for several minutes; remove contact lenses if easy to do; continue rinsing. If inhaled: remove person to fresh air and keep comfortable for breathing. If swallowed: rinse mouth; do NOT induce vomiting. If you experience a burn, rash or skin irritation: immediately see a doctor. Immediately seek medical attention if any symptoms are significant or persist. In Emergency: 1-800-535-5053. **Contains portland cement and crystalline silica**. Before handling read Safety Data Sheet at www.custombuildingproducts.com.

KEEP OUT OF REACH OF CHILDREN.



WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and hexavalent chromium compounds, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

5. Size & Availability

Location	Item Code	Size	Package
USA	TPMP25T	25 lb (11.34 kg)	Bag

Contact the manufacturer or visit custombuildingproducts.com for more information about product cost and availability.

6. Product Warranty

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.custombuildingproducts.com/product-warranty or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of Custom Building Products, Inc. © 2025 Quikrete International, Inc.

7. Product Maintenance

Properly installed product requires no special maintenance.

8. Technical Services Information

For technical assistance, contact Custom Building Products.

9. Filing System

Additional product information is available from the manufacturer upon request.

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Coverage Chart

SQUARE FOOT COVERAGE PER 25 LB BAG (SQUARE METER PER 11.34 KG). Coverage will vary depending on the texture of the surface being smoothed.

THICKNESS	MIN COVERAGE	MAX COVERAGE
1/16 in (1.6 mm)	55.2 ft^2 (5.13 M^2)	62.4 ft^2 (5.80 M^2)
1/8 in (3 mm)	27.65 ft^2 (2.57 M^2)	31.39 ft^2 (2.92 M^2)
1/4 in (6 mm)	13.82 ft^2 (1.28 M^2)	15.70 ft^2 (1.46 M^2)
1/2 in (12 mm)	6.91 ft^2 (0.64 M^2)	7.85 ft^2 (0.73 M^2)

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