

TechPatch™ MP Multipurpose Rapid Setting Skim Coat & Floor Patch



- 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 Manufacturers recommendations for Relative Humidity limitations and Moisture Vapor Emissions limitations.

Packaging

25 lb (11.34 kg) Bags

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, OSB and plywood up to 1/2" (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"
- 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

*Special preparation or primers may be required

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
- Use as a thin skimcoat to smooth existing finishes
- Patches and levels concrete and plywood to 1/2" (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.

3. Technical Data

Applicable Standards

ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- 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 C109 Mod.	
1 Day		>1500 psi (10.3 Mpa)
7 Days		>3500 psi (24.1Mpa)
28 Days		>3500 psi (24.1 Mpa)
Adhesion	BS EN 13408	
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.

4. Instructions

General Surface Prep

USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.

All surfaces must be structurally sound, clean, dry and free from

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contaminants that would prevent a good bond. Concrete must be fully cured. Refer to final flooring manufacturer's requirements for maximum moisture vapor transmission limitations. Smooth concrete surfaces, existing glazed tile, terrazzo, or polished stone may need to be roughened or scarified. Refer to Custom TechPrime™ A Acrylic Primer technical datasheet for use in lieu of mechanical preparation or when applying over Custom TechMVCTM Moisture Vapor and Alkalinity Barrier. For increased performance in demanding applications, concrete surfaces can be mechanically profiled and prepared by shotblasting, sandblasting, scarifying, diamond-grinding or other engineered approved methods (reference ICRI CSP 3 standards for ideal profile height). Any existing flooring must be well bonded and stripped of old finish.

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.

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. Only spot patching should be done on wood surfaces. If an area more than 5 ft. (1.5 M) in diameter is required, use an appropriate CustomTech™ selfleveling underlayment.

Curing of Product

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

Cleaning of Equipment

Clean with water before material dries.

Health Precautions

This product contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Use with adequate ventilation; do not breathe dust and wear a NIOSH approved respirator. If ingested, do not induce vomiting; call a physician immediately.

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

Obtain the applicable LIMITED PRODUCT WARRANTY at www.customtechflooring.com/reference-library/warranties/ or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of Custom Building Products, Inc. © 2017 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" (1.6 mm)	55.2 ft ² (5.13 M ²)	62.4 ft ² (5.80 M ²)
1/8" (3 mm)	27.65 ft ² (2.57 M ²)	31.39 ft ² (2.92 M ²)
1/4" (6 mm)	13.82 ft ² (1.28 M ²)	15.70 ft ² (1.46 M ²)
1/2" (12 mm)	6.91 ft ² (0.64 M ²)	7.85 ft ² (0.73 M ²)