

TechPatch RP Ramping Patch

1 Product Name

TechPatch RP Ramping Patch

2 Manufacturer

Custom Building Products
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3 Product Description

TechPatch™ RP is a premium quality calcium aluminate, fast setting underlayment product with exceptional handling characteristics, used for ramping, patching or screeding suitable horizontal substrates. TechPatch RP can be installed from featheredge to 1.5" neat under most commercial and residential floor coverings.

Key Features

- Patches and smooths interior subfloors
- Install most flooring in just 60 - 90 minutes
- Apply from featheredge to 1.5"

Uses

Use as a patching and ramping compound on porous concrete or over primed ceramic tile, stone, terrazzo, and other non-porous surfaces. Do not use over plywood, OSB board, metal, fiberglass, particle board, hardwood, parquet, or cushion backed vinyl flooring. Do not use when the temperature is below 50°F (10°C).

Suitable Substrates

- Absorbent concrete
- Gypsum-based underlayment*
- Existing ceramic tile, stone & terrazzo* Cutback adhesive residue
- Moisture control membranes*
 (*Preparation required)

Composition of Product

TechPatch RP is a blend of calcium aluminate cement, inorganic fillers and polymers.

Benefits of Product in the Installation

- Quick-setting formula permits most floor covering installation in as little as 60 – 90 minutes
- Exceptional handling properties
- Patches and levels to 1.5" (50 mm) thick



Limitations to the Product

- Interior applications only.
- Do not bond to plywood, OSB, hardwood, Luan plywood, particleboard, parquet, cushion or sponge back vinyl flooring, metal, fiberglass or plastic.
- Do not use when temperature is below 50°F (10°C).
- Not for use in areas with continuous water exposure (e.g. showers, swimming pools, spas, water features and fountains).

Packaging

40 lb. (18.14 kg) Bags

4 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 C348 Standard Test method for Flexural Strength

Resilient Floor Covering Institute (RFCI) Recommended Work Practices for Removal of Resilient Floor Coverings

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

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Technical Chart

Test	Method	Value
Vicat Set Time	ASTM C191	
Initial Set		Approx. 35 Minutes
Final Set		Approx. 45 Minutes
Flow	ASTM C1437	>90%
Compressive Strength	ASTM C109 Mod.	
1 Day		>2500 psi (17.2 Mpa)
7 Days		>4000 psi (27.6 Mpa)
28 Days		>4300 psi (29.6 Mpa)
Flexural Strength	ASTM C348	>800 psi (5.52 Mpa)
28 Days		
Adhesion	BS EN 13408	
Unprimed		>250 psi (1.72 Mpa)
Primed		>300 psi (2.07 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.

5 Instructions

General Surface Prep

General Surface Prep

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

All surfaces must be structurally sound, clean, dry and free from 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, scarified or used with CustomTech™ TechPrime A Acrylic Primer or CUSTOM® MBP - Multi- Surface Bonding Primer. 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 acceptable profile height).

Bonding to Cement Surfaces

Contaminants or curing compounds should be mechanically removed before installation. Concrete & masonry must be free of efflorescence and not subject to moisture beyond the floor covering manufacturers' limits or hydrostatic pressure. Concrete surfaces must have a tensile pulloff strength in excess of 200 psi (1.4 n/mm²).

Bonding to Lightweight Cement and Gypsum Surfaces

Gypsum-based underlayment must obtain a minimum 2000 psi (13.8MP) compressive strength. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces must be structurally sound and subject to deflection not to exceed the current industry standards. Surfaces shall be free of all contaminants such as grease, oil, dirt, dust, curing compounds, waxes, efflorescence. All Gypsum surfaces should be treated with the manufacturer's sealer or primed with CustomTech™ TechPrime A Acrylic Primer. Refer to the product data sheet and packaging directions for application instructions.

Bonding to Cutback Adhesive

Adhesive layers must be removed. Use extreme caution; adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings", for further information.

Mixing Ratios

Mix 3 ½-4 quarts (3.31-3.78 L) clean, cool water to a 40 lb. (18.14 kg) bag of TechPatch RP.

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 amounts that can be applied in 20 minutes.

Application of Product

Lightly dampen porous substrates with a sponge to remove dust and assist bonding. Pressure-apply TechPatch RP with a smooth edged trowel. Add more product as desired to flatten the surface. Use a straightedge in thicker applications to place, level or flatten patch to the appropriate elevation.

Curing of Product

Allow to cure for 60 – 90 minutes. Drying time will vary based on thickness, temperatures and humidity.

Cleaning of equipment

Clean with water before material dries.

Health Precautions

This product contains 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.

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6 Availability & Cost

Location	Item Code	Size	Package
USA	TPRP40T	40 lb. (18.14 kg)	Bag

7 Product Warranty

Obtain the applicable LIMITED PRODUCT WARRANTY at [/reference-library/warranties/](#) or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA.
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8 Product Maintenance

Properly installed product requires no special maintenance.

9 Technical Services Information

For technical assistance, contact Custom technical services at 800-272-8786 or [contact us online](#).

10 Filing System

Additional product information is available from the manufacturer upon request.

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Related Products

Coverage

THICKNESS	MIN COVERAGE	MAX COVERAGE
1/8" (3 mm)	35.42 ft ² (3.29 M ²)	37.73 ft ² (3.51 M ²)
1/4" (6 mm)	17.71 ft ² (1.65 M ²)	18.86 ft ² (1.75 M ²)
1/2" (12 mm)	8.86 ft ² (0.82 M ²)	9.43 ft ² (0.88 M ²)
1" (25 mm)	4.43 ft ² (0.41 M ²)	4.72 ft ² (0.44 M ²)
1.5" (38 mm)	2.95 ft ² (0.27 M ²)	3.14 ft ² (0.29 M ²)