# TechPatch RP Ramping Patch

**1. Product Name**

TechPatch RP Ramping Patch


**2. 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"
- Excellent for ramping and screeding

**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 (meets ASTM F2419)
- Existing ceramic tile*
- Resilient flooring*
- Embossed vinyl*
- Cutback adhesive residue
- Primed cement terrazzo
- Approved and prepared moisture control membranes*

*Special preparation or primers may be required

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**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 mostfloor covering installation in as little as 60 - 90 minutes
- Exceptional handling properties

- Patches and levels to 1.5" (38 mm) thick

**3. Technical Data**

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

**Bonding To Concrete 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 t ensile pulloff strength in excess of 200 psi (1.4 n/mm²).

**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) |

**Limitations to the Product**

- Interior use only.
- Not for use over any wood-based substrates such as Exterior grade plywood & OSB / APA or CANPLY Group 1 or Flooring manufactures approved wood underlayments
- 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 Humidty limitations and Moisture Vapor Emissions limitations.

**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 contaminates 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.

**4. Instructions**

**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 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 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.

**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.

**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.

**5. Availability & Cost**

| Location | Item Code | Size | Package |
|---|---|---|---|
| USA | TPRP40T | 40 lb. (18.14 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.


**7. Product Maintenance**

Properly installed product requires no special maintenance.

**Curing of Product**

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

**8. Technical Services Information**

For technical assistance, contact Custom Building Products.

**9. Filing System**

Additional product information is available from the manufacturer upon request.

**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.

**10. Technical Services Information**

For technical assistance, contact Custom Building Products.

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**Conformance to Building Codes**

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

**Coverage Chart**

| THICKNESS | MIN COVERAGE | MAX COVERAGE |
|---|---|---|
| 1/8" (3 mm) | 35.42 ft² (3.29 M²) | 37.73 ft² (3.51 M²) |
| 1/4" (6 mm) | 17.71 ft² (1.65 M²) | 18.86 ft² (1.75 M²) |
| 1/2" (12 mm) | 8.86 ft² (0.82 M²) | 9.43 ft² (0.88 M²) |
| 1" (25 mm) | 4.43 ft² (0.41 M²) | 4.72 ft² (0.44 M²) |
| 1.5" (38 mm) | 2.95 ft² (0.27 M²) | 3.14 ft² (0.29 M²) |