

CustomTech TechPatch SC



1. Product Name

CustomTech TechPatch SC

2. Manufacturer

Custom Building Products
Technical Services
10400 Pioneer Boulevard, Unit 3
Santa Fe Springs, CA 90670
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3. Product Description

A fast-curing, cement-based, skim coat and patching compound that provides a smooth finish to a variety of substrates prior to the installation of floor coverings. Formulated with Controlled Cure Technology™ TechPatch SC helps eliminate installation problems of bond failure, crumbling, mildew and staining of resilient flooring due to free- moisture found in traditional underlayment. Its rapid setting formula allows installation of most floor coverings in as little as 30 minutes.

Key Features

- Superior mixing and handling
- Excellent for skim coat patching applications
- No additives required
- Apply from featheredge to 1/2"
- Install flooring in as little as 30-90 minutes

Uses

Suitable as an Underlayment for:

- Carpet
- Wood and parquet flooring
- Luxury Vinyl Tile/Planks (LVT/LVP)
- Vinyl composition tile (VCT)
- Sheet vinyl and rubber flooring
- Laminated flooring
- Ceramic, mosaic, quarry or cement body tile
- Impervious porcelain and glass tile
- Cement-based precast terrazzo
- Natural stone tile
- Terrazzo

Suitable Substrates

- Absorbent concrete

- Gypsum-based underlayment (meets ASTM F2419)
- Exterior grade plywood & OSB / APA or CANPLY Group 1
- Flooring manufacturer's approved wood underlayment
- Existing ceramic tile
- Resilient flooring
- Cutback adhesive residue
- Primed cement terrazzo
- Approved and prepared moisture control membranes

*Special preparation or primers may be required

Composition of Product

TechPatch SC is a blend of cements, inorganic fillers and polymers.

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 Manufacturers Recommendations for Relative Humidity Limitations and Moisture Vapor Emissions limitations.

Packaging

10 lbs. (4.5 kg) Bags

4. Technical Data

Applicable Standards

TechPatch SC meets the requirements of ASTM F710 Including compressive strengths >3000psi without the use of additives

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 Emissions
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
- ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
- 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 01 and A108.02 of the American National Standards for the Installation of Ceramic Tile
- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

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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

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

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter. Concrete must be fully cured and absorb water. 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.

CUSTOM® products may be used in assemblies over concrete with high moisture vapor emission levels provided that other materials such as finish flooring, adhesives or membranes are approved in these conditions. Consult the manufacturers for their limitations and requirements. Additionally, any sources of moisture are to be limited to initial concrete placement and not from sources such as water intrusion or from a lack of an effective vapor retarder/barrier. Assembly mockups will determine suitability for these conditions on specific projects. Contact CUSTOM Technical Services for product information (800) 282-8786

Bonding To Concrete Surfaces

In addition to general surface preparation requirements listed above, concrete must be free of efflorescence and hydrostatic pressure. Concrete surfaces must have a tensile strength in excess of 200 psi (1.4 n/mm²). Concrete that was treated with curing compounds must be evaluated for suitability or mechanically removed

Bonding to Gypsum Surfaces

Gypsum-based underlayment must be solid and structurally sound, achieving a compressive strength >2000psi (13.8 MPa). Remove any unacceptable surfaces. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Substrate deflection not to exceed the current industry standards. All Gypsum surfaces are required to be sealed or primed prior to leveling. Apply [TechPrime A Acrylic Primer](#) directly to the gypsum or over gypsum manufacturer's sealer. Dilute TechPrime A 3-parts water to 1-part primer with clean, potable water. Apply a second application of primer diluted 1:1. Drying time depends on site conditions but is normally less than 1 hour between coats. Leveler can be applied to the primed surface after primer dries. Gypsum based underlayment used in tile or stone applications may require waterproofing or crack isolation. For these applications we recommend applying [RedGard® Waterproofing and Crack Prevention Membrane](#) over leveler once cured.

Bonding to Plywood and OSB Surfaces

Plywood floors, including those under resilient flooring, must be structurally sound and must meet all industry guidelines. For questions about proper subfloor installation, call Custom® Building Products.

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. Adhesive residue must be wet-scraped to the finished surface of the concrete, leaving only the transparent staining from the glue. To determine desirable results, do a test bond area before starting. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings", for further information.

Mixing Procedures

Mix 1.6- 2.0 qt (1.51 – 1.9 L) clean, cool water to a 10 lbs. (4.54 kg) bag of Tech Patch SC or for smaller applications mix approximately 1 part liquid to 3 parts powder.

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™ self-leveling underlayment.

Curing of Product

LVT, LVP, VCT, sheet vinyl and carpeting can be installed when surface can be worked on without damage (usually about 30 - 90 minutes).


Parquet, athletic flooring and flooring requiring special adhesives (such as epoxies and urethanes) which can be sensitive to the presence of moisture can be installed after 16 hours. Drying time depends on ambient conditions and thickness.

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.

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6. Availability & Cost

Location	Item Code	Size	Package
USA	TPSC10T	10 lb (4.5 kg)	Bag

7. Product Warranty

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.custombuildingproducts.com/warranties 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. © 2024 Quikrete International, Inc.

8. Product Maintenance

Properly installed product requires no special maintenance.

9. Technical Services Information

For technical assistance, contact Custom Building Products.

10. Filing System

Additional product information is available from the manufacturer upon request.

Coverage Chart

SQUARE FOOT COVERAGE PER 10 LB BAG (SQUARE METER PER 4.5 KG). Coverage will vary depending on the texture of the surface being smoothed.

THICKNESS	MIN COVERAGE	MAX COVERAGE
As a Skim Coat	100 ft² (9 M²)	300 ft² (27 M²)
1/8" (3 mm)	33.3 ft² (3 M²)	35.9 ft² (3.3 M²)
1/4" (6 mm)	16.6 ft² (1.5 M²)	17.9 ft² (1.6 M²)
1/2" (12 mm)	8.3 ft² (0.7 M²)	8.9 ft² (0.8 M²)