

Carpet Tile PSA Pressure Sensitive Adhesive

1. Product Name

Carpet Tile PSA Pressure Sensitive Adhesive

2. Manufacturer

Custom Building Products
11450 Technology Circle
Johns Creek, GA 30097
Customer Support: 800-272-8786
Technical Services: 800-282-8786
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3. Product Description

Carpet Tile PSA pressure sensitive adhesive is a quick flash, high tack solution for carpet tile. This product can be troweled or rolled and can be used in permanent or releasable applications using pressure-sensitive (dry-set), semi-wet and wet-set methods. Carpet Tile PSA is tinted in CUSTOM's signature orange color and dries so that layout lines are visible. This low odor, low VOC product is ideal for occupied environments.

Suitable as a substrate for

- Carpet Tile, including the following:
 - Vinyl Backed Carpet
 - Hybrid Resilient / Modular products
 - Non-PVC
 - Polyolefin
 - Felt Backed
 - Woven Textile Backed
 - Bituminous backed carpet tiles

Contact CUSTOM Technical Services before installing products with recycled backing materials

Key Features

- Extended open time - 24 hours/dry set
- Easy to roll formula
- High tack, extremely easy to reposition finish flooring
- High Moisture Resistance - up to 99% RH, per ASTM F2170
- Low odor, Low VOC, great for occupied environments
- Wet and Dry Set Installation methods

Suitable Substrates

- Concrete (industry approved) installed per guidelines in ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring, or in ACI 302.2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
- Cement terrazzo
- Plywood and other approved wood-based substrate
- Cement-based self-leveling underlayment and patching compounds
- Properly prepared primed/sealed gypsum underlayment per ASTM F2419
- Existing well bonded vinyl composition tiles
- CustomTech™ TechMVC Moisture Vapor and Alkalinity Barrier

Note: Consult CUSTOM Technical Services Department for installation recommendations regarding substrates and conditions All surfaces / substrates above require proper surface preparation See suitable surface preparation products - CustomTech® Flooring Preparation Systems.

Acceptable Substrate Conditions

RH - 99 % / ASTM F2170 Relative Humidity in Concrete Floor Slabs -In-situ Probes

MVER - up to 10 lbs. / ASTM F1869 Moisture Vapor Emission Rate pH [Substrate] - less than 12

* Contact Technical Services for test results/readings outside above conditions.

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Limitations to the Product

IMPORTANT NOTE: Finished Flooring limitations and requirements will supersede recommendations of Carpet Tile PSA adhesive. Consult flooring manufacturer for performance data and recommendations.

- For interior use only. Do not use when ambient and/or substrate temperature is below 50° F (10° C) or above 95° F (35° C) or when condensation exists.
- Do not install into/over standing water (existing substrates and/or new concrete).
- Do not install in areas with known hydrostatic moisture
- Do not install unless the temperature of the prepared concrete slab is $\geq 5^{\circ}\text{F}$ ($\geq 2.8^{\circ}\text{C}$) above the dew point, to avoid condensation on surfaces.
- Existing adhesive must be removed to an embedded residue with no surface trowel ridges.
- Do not install over treated plywood.
- Do not install when concrete pH is greater than or equal to 12, consult flooring manufacturer for limitations.
- Do not install when MVER exceeds 10 per ASTM F1869.
- Do not install when RH/Relative Humidity exceeds 99% per ASTM F2170.
- Wet set method should only be used over porous substrates.
- High-moisture-resistance capabilities do not apply to wet or semi-wet adhesive. In those cases, moisture limits revert to 5 lbs. (2.27 kg) MVER and 80% relative humidity (RH).
- Above or on grade porous concrete in the absence of hydrostatic moisture/pressure. Concrete substrates must be protected from moisture penetration with an under-slab moisture vapor retarder per ASTM E1745.
- Custom Building Products is not liable for failures resulting from excessive plasticizer migration from flooring materials, substrate contamination, or other external factors.

*Not for use as a moisture mitigation membrane. Contact CUSTOM Technical Services for recommendations.

4. Technical Data

Applicable Standards

ASTM International (ASTM):

- ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probe
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ASTM E1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

Additional Applicable Standards

- ACI 2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
- CRI-104-Standard for Installation of Commercial Carpet
- CRI-105- Standard for Installation of Residential Carpet
- Resilient Floor Covering Institute (RFCI) Recommended Work Practices for Removal of Resilient Floor Coverings / RFCI IP#2 - Recommended Installation Practice for Vinyl Composition Tile (VCT)

Technical Chart

Product Data	
Composition	Advanced proprietary multi-polymer blend
Appearance	Creamy Paste
Base Color	Light Orange
pH [product]	8.5 - 9.5
Product Timing	
Working time Dry Set [accepts flooring installation]	24 hours
Open / Working time - wet set	60 minutes
Flash time / porous*	30 minutes

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Flash time / non-porous*	30 - 45 minutes
Service Timing	
Dry-Set Installation - Light Traffic	Immediately after installation
Dry-Set Installation - Full Service / Heavy Rolling	24 hours
Wet-Set Installation - Light Traffic	Immediately after installation
Wet-Set Installation - Moderate/Heavy	24 hours
Wet-Set Installation - Full Service / Heavy Rolling	48 hours
Moisture Data	
RH / Relative Humidity	Up to 99%
pH [substrate]	Less than 12
MVER	Up to 10 lb

*Flash Time is required before flooring installation and will vary based on substrate conditions, porosity, and jobsite temperatures and conditions

Storage Chart

Storage	
Shelf Life	2 years - stored in original unopened packaging at 73 °F (23 °C)
Jobsite storage conditions required	50 °F to 95 °F (10 °C to 35 °C)
Protect adhesive containers from freezing in transit, storage, and on jobsite	If adhesive container freezes, wait until completely thawed before stirring for use. If product remains separated, do not use, and contact CUSTOM Technical Services

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.

Environmental and Sustainability	
Solvents	None
Isocyanates	None
VOCs (Rule #1168 of California's SCAQMD) - Super Compliant Products table https://www.agmd.gov/home/rules-compliance/compliance/vocs/adhesive-and-sealants/rule-1168-compliant-products#Compliant	< 16 g/L
*LEED Credits / MR5 and IEQ 4.1	Regional and low emitting materials

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5. Instructions

General Surface Prep

Refer to Technical Bulletin 108 - General Requirements of Installing Finishes for additional information. All surfaces must be structurally sound, clean, dry and free from contaminants or curing compounds that would prevent or inhibit adhesion bonding. Concrete must be free of efflorescence or exhibit hydrostatic pressure and not subject to moisture conditions beyond the floor covering manufacturers' limits. Any existing adhesive must be removed to an embedded residue. Substrates must be flat to within 3/16" in a 10-foot span (4.5 mm in 3.05 m), per ASTM F710.

Fill all surface cracks, grooves, depressions, control joints and non-moving joints According to ASTM F710. Use CustomTech® Flooring Preparation Systems. to mitigate substrate deficiencies before flooring installations. Lightweight concrete surfaces must have a tensile strength in excess of 200 psi (1.4 n/mm²). HVAC must be operational between 50-95 °F/30- 65% relative humidity a minimum of 72 hours prior to installation enabling the substrate, adhesive and flooring to be properly climatized - See flooring manufacture's requirements. It is the responsibility of the installer to determine the suitability of the substrate and any required preparation work necessary to ensure a successful installation. Disable radiant system 24 hours prior, during and after installation - Follow radiant system manufacture's instruction for start-up procedures and raise temperatures by 5 °F increments. Assembly mockups will determine suitability for these conditions on specific projects. Contact CUSTOM Technical Services for product information (800) 282-8786.

NOTE: 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. Substrate must be prepared per ASTM F710 standards.

Installation of Product

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

1. For best results, materials and area should be between 50° - 95° F (10° C to 35° C) with a maximum of 65% RH ambient for 72 hours before, during and after installation. Large variations of temperature and relative humidity will affect the working time of the adhesive.
2. Spread the adhesive on the substrate using the recommended trowel or roller. See coverage table below and always follow floor covering manufactures' trowel recommendations.
3. Pressure sensitive, releasable/dry set installation: Allow the adhesive to dry to touch (adhesive becomes semi-translucent, non-transferrable) before installing the flooring. Install flooring within 24 hours
4. Protect exposed adhesive from site contamination such as trade traffic and dust.
5. For permanent installations, use a "wet-set" installation procedure. Trowel adhesive and wait 5-10 minutes for potential substrate outgassing, then place flooring into adhesive while it is still wet/transferable. This method should only be used over porous floors/substrates.
6. Place tile and adjust as needed
7. Drying time of the adhesive is influenced by temperature, humidity of the room, airflow, and substrate temperatures/porosity.
8. Follow flooring manufacture's weight and installation recommendations for rolling flooring.

Protection

General Contractor, Flooring Contractor and Building owner must provide proper climate controls per flooring manufacturers requirements before, during and after flooring installation.

Cleaning of Equipment

Clean with water before adhesive dries. Dried adhesive can be cleaned with mineral spirits.

Storage

Protect from freezing. Store in a cool, dry area.

Product Maintenance


Allow seven days after installation before cleaning flooring with saturated water and liquid compounds. General Contractor, Flooring Contractor and Building owner must provide proper climate controls per flooring manufacturers requirements before, during and after

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flooring installation. Properly installed product requires no special maintenance, see flooring manufacture for service and maintenance requirements.

Health Precautions

WARNING: MAY IRRITATE EYES. MAY IRRITATE SKIN. MAY CAUSE RESPIRATORY IRRITATION. Do not mix with other chemical products. Do not get on skin or clothing. Do not get in eyes. Do not breathe in fumes. Do not swallow. **KEEP OUT OF REACH OF CHILDREN.** Use only in a well-ventilated area. Wear impervious gloves, NIOSH approved respirator, and eye protection. **FIRST AID TREATMENT: Contains: Heavy petroleum distillates, rosin, and monoethanolamine.** If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. If breathed in, move person into fresh air. In emergency, call (800) 535-5053.

 **WARNING:** This product can expose you to chemicals including ethylene oxide which is known to the State of California to cause cancer and birth defects or other reproductive harm and diethanolamine which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov See Safety Data Sheet for more information.

Conformance to Building Codes

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

6. Ordering: Item Code and Sizes

ITEM CODE	DESCRIPTION	UOM DESC
CTPSAT4	4 gal (15.1 L)	Pail

Product Warranty

NOTICE: Obtain the applicable **LIMITED PRODUCT 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. © 2023 Quikrete International, Inc

2 Years - Product only, un-opened and properly stored.

15 Year System - CUSTOM Adhesive and CustomTech™ Floor Preparation Systems.

FLOOR-MATCH Warranty - CUSTOM Adhesives & CustomTech™ Floor Preparation Products/Systems are warranted equal to the Flooring manufacturer's warranty term up to LIFETIME.

*See CUSTOM FLOOR- MATCH Warranty, separate document.

Technical Services Information

For technical assistance, contact Custom Technical Services at (800) 282-8786 or contact us online at custombuildingproducts.com.

Coverage Chart

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more sizes, use the material calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at 800-282-8786.

Square Foot Coverage Per Gallon (Square Meter Per 3.8 L)		
Application	Coverage	Recommended Application Method
Rough Backed Materials	170 - 180 ft ² (15.79 - 16.72 m ²)	Square-Notch Trowel 1/16" x 1/16" x 1/16" (1.6 mm x 1.6 mm x 1.6 mm)
Smooth Backed Materials	220-260 ft ² (20.44 - 24.15 m ²)	U-Notch Trowel 1/16" x 1/32" x 1/32" (1.6 mm x 0.8 mm x 0.8 mm)
Smooth Backed Materials	Up to 350 ft ² (Up to 32.52 m ²)	Lin-Free Roller 3/8" (9.5 mm) Nap