1. PRODUCT NAME
TEC® Ceramic Tile Adhesive for Walls and Floors (101)

2. MANUFACTURER
H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
800.552.6225 Office
800.832.9023 Technical Support
800.952.2368 Fax
tecspecialty.com

3. DESCRIPTION
Ceramic Tile Adhesive (TA-101) is an acrylic-based, multi-purpose ceramic and marble tile adhesive designed for the interior installation of ceramic or marble tile over selected wall, floor and countertop applications.

NOTE: Maximum tile size for floor applications is 8" x 8" (200 x 200 mm).

Key Features and Benefits
• For ceramic and marble tile
• Easy spreading
• Non slip
• Resilient bonds
• Meets ANSI A136.1, Type I and Type II specifications
• Contributes to LEED® project points
• Low VOC

Packaging
1 U.S. gallon plastic pails (3.78 L) Product #3300025011
3.5 U.S. gallon plastic pails (13.25 L) Product #3300021211

Coverage
Determine recommended trowel size based on tile type. Coverage will vary with the absorption of substrate and trowel size. Figures below are presented only as guidelines.

<table>
<thead>
<tr>
<th>Tile Type</th>
<th>Recommended Trowel Size</th>
<th>Approximate Coverage per gallon (3.78 L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6&quot; x 6&quot; (150 x 150 mm)</td>
<td>( \frac{3}{4} &quot; \times \frac{3}{4} &quot; ) (4.5 x 4 mm) V-notch trowel</td>
<td>41-48 sq. ft. (3.8-4.5 m²)</td>
</tr>
<tr>
<td>Over 6&quot; x 6&quot; (Over 150 x 150 mm) including: ceramic, vitreous, monocottura, quarry and marble, except green marble</td>
<td>( \frac{1}{4} &quot; \times \frac{1}{4} &quot; \times \frac{1}{4} &quot; ) (6 x 6 x 6 mm) square notch trowel</td>
<td>25-30 sq. ft. (2.3-2.8 m²)</td>
</tr>
<tr>
<td>Heavy Tile including: heavy ceramic, vitreous, natural stone, slate and pavers</td>
<td>( \frac{1}{4} &quot; \times \frac{3}{4} &quot; \times \frac{3}{4} &quot; ) (6 x 10 x 6 mm) square notch trowel</td>
<td>20-25 sq. ft. (1.9-2.3 m²)</td>
</tr>
</tbody>
</table>

Suitable Substrates
When properly prepared as detailed in Substrate Preparation, suitable substrates include:
• Concrete—well cured; on, above or below grade
• Cementitious backer units (CBU)
• Exterior Grade Plywood—APA Grade Trademarked Exposure 1 or better; minimum two-1/8" (15 mm) layers; installed in accordance with TCA Installation Detail F142. Not for marble tile applications.
• Existing ceramic or resilient tile
• Coated glass mat backer board
• Gypsum wallboard (dry areas)
• Water resistant gypsum wallboard
• Cured portland cement plaster
• Masonry
• Plastic laminate

Substrate Preparation

Exterior Grade Plywood Floors—Wood subflooring must be structurally sound and securely fastened with screw type or ring shank nails and adhesive. Plywood flooring should be free from dust, dirt, oil, grease, etc. Installation requires two layers, minimum 1/8" (15 mm) exterior grade plywood subfloor and 3/16" (15 mm) exterior grade plywood underlayment on bridged floor joists 16" (40 cm) on center, with a maximum deflection of 1/200 of the span. Joints in the top layer shall be offset from joints in the bottom layer of plywood. A gap of 1/16" (3 mm) is required between overlay panels and 1/4" (6 mm) is required between panels and all materials they abut such as walls and posts. Adjacent edges of plywood panels shall not be more than 1/16" (0.8 mm) above or below each other. Follow TCA Installation Detail F142.

Cementitious Backer Units—Follow manufacturer’s instructions.

Coated Glass Mat Backer Board—Reference TCA Installation Details F146, W245, B419 or B420.

Plastic Laminate—Rough surface by sanding or scarifying. Rinse and allow to dry. Reference TCA Detail TR711.

Existing Ceramic Tile—Remove surface contaminants. Mechanically abrade with carborundum stone. Rinse and allow to dry. Reference TCA Installation Details TR712 or TR713.

Storage
Store in cool, dry location. Do not store open containers.

Shelf Life
Maximum of 1 year from date of manufacture in unopened container.

Limitations
Interior use only. Do not use for setting fixtures or green marble. For green marble, use TEC AccuColor EFX® Epoxy Grout and Mortar. Do not use over surfaces such as tempered hardboard, pressboard, cement asbestos board, particle board, oriented strand board, gypsum patches, synthetic flooring (linoleum, asphalt and vinyl tile) or similar unstable substrates. Do not use for underwater applications or where hydrostatic pressure exists. Do not use for floor applications of tiles with lugs; use an appropriate TEC mortar product. Maximum tile size for floor applications is 8” x 8” (200 x 200 mm). Extensive laboratory testing has shown that marble installed with Ceramic Tile Adhesive (TA-101) will return to its original color after water in the adhesive has evaporated, typically 3 to 4 weeks.

Marble, a quarried material, may vary in porosity and chemical composition. TEC recommends testing the selected marble prior to installation for discoloration using the following method: Spread adhesive on a marble sample and allow to dry. Reference TCA Installation Details TR711.

Cautions
Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TEC brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.
4. TECHNICAL DATA

Applicable Standard
Tested in accordance with American National Standards for Organic Adhesives for Installation of Ceramic Tile—ANSI 136.1, Type I

<table>
<thead>
<tr>
<th>Ceramic Tile Adhesive for Walls and Floors (101)</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
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<tr>
<td>Shear Strength</td>
</tr>
<tr>
<td>Conditioned Dry 28 Day, Room Temperature Type I Water Immersion After Accelerated Heat Aging</td>
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<tr>
<td>&gt; 75% dry shear strength retention</td>
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<tr>
<td>Heat Resistance</td>
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<tr>
<td>Impact Test</td>
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<tr>
<td>Stain Test</td>
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<tr>
<td>Stability in Storage</td>
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<tr>
<td>Resistance to Mold Growth</td>
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</tbody>
</table>

Physical Properties

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Physical State</strong></td>
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<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
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<tr>
<td><strong>Open Time [at 72°F (22°C)]</strong></td>
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<tr>
<td><strong>Wt./U.S. Gallon</strong></td>
</tr>
<tr>
<td><strong>Wt./Liter</strong></td>
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<tr>
<td><strong>VOC/Liter of Material</strong></td>
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<td></td>
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<tr>
<td><strong>Foot Traffic Rating (ASTM C627)</strong></td>
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<tr>
<td><strong>Freeze/Thaw Stability</strong></td>
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<tr>
<td><strong>Storage</strong></td>
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<tr>
<td><strong>Shelf Life</strong></td>
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5. INSTALLATION INSTRUCTIONS

Application
1. All tiling materials, room and adhesive should be at a minimum 50°F (10°C) for 24 hours before and 48 hours after installation.
2. For best results, pre-measure and pre-cut all tile prior to spreading adhesive.
3. Apply adhesive using flat side of trowel to promote better substrate contact, then comb in one direction with the notched side of the trowel. Spread only an area that can be tiled while surface is still tacky (typically 25-35 minutes). Do not set tile if a skin has formed on the adhesive.
4. Press tiles into setting bed, then push in a direction perpendicular to the notched trowel ridges to achieve optimum coverage. Apply adhesive in a heavy enough layer so that complete contact (no voids, 100% coverage) between mortar and tile is accomplished when tile is positioned. Proper installation requires a minimum of 1/32" (0.8 mm) continuous layer of adhesive between tile and substrate. Periodically remove and check a tile to assure proper coverage. Keep a minimum of 2/3 of the joint depth between tiles for grouting.

Clean-up
Clean tools, hands, and excess materials from face of tile, while adhesive is still fresh, with warm soapy water. Dried adhesive must be removed with mineral spirits.

Grouting/Curing
Tile may be grouted as soon as adhesive is set and tiles are held firm in place, typically after 6 hours for 4¼" (108 mm) wall tiles. Floor tile greater than 6" x 6" (subject to size limitations) usually require at least 24 hours to set. Colder temperatures, high humidity, use of large vitreous tiles [6" x 6" (150 x 150 mm) or larger], or non-breathing back-ups will extend set times. The use of TEC brand grouts is highly recommended.

6. AVAILABILITY
TEC Premium Tile and Stone Installation Products are available nationwide. To locate TEC products in your area, please contact:
Phone: 800-832-9002
Website: tecspecialty.com

7. LIMITED WARRANTY
The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE
Not applicable

9. TECHNICAL SERVICES
Technical and safety literature
To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM
Division 9