1. PRODUCT NAME
TEC® SturdiLight™ Lightweight Mortar
(354/355)

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
SturdiLight™ Mortar is a lightweight, polymer modified mortar that offers twice the coverage per pound than traditional mortars. Formulated with Easy Trowel Technology™, SturdiLight™ Mortar offers superior handling and usage characteristics while also providing strong bonding performance. SturdiLight™ Mortar meets ANSI A118.4E and A118.11 specifications, and is rated for residential to extra heavy commercial applications.

Key Features and Benefits

- Twice the coverage per pound of regular mortars
- Extended open time
- Easy Trowel Technology™ provides superior handling
- Interior/exterior use
- Extra heavy duty commercial rating
- Recycled content contributes to LEED® certification
- One-part polymer modified formula—just add water and mix
- Meets ANSI A118.4E and A118.11 specifications
- Zero VOC

* Gray formula contains 5% pre-consumer recycled material.
White formula contains 4% pre-consumer recycled material.

Packaging
25 lb. (11.34 kg) moisture-resistant bags
Gray Product #7048443011
White Product #7049673011

Coverage
Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

<table>
<thead>
<tr>
<th>Trowel Size</th>
<th>Approximate Coverage per 25 lbs. (11.34 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼&quot; x ¼&quot; x ⅛&quot; (6 x 6 x 6 mm) square-notch trowel</td>
<td>80-90 sq. ft. (7.4-8.4 m²)</td>
</tr>
<tr>
<td>⅝&quot; x ⅝&quot; x ⅛&quot; (6 x 9 x 6 mm) square-notch trowel</td>
<td>55-65 sq. ft. (5.1-6 m²)</td>
</tr>
</tbody>
</table>

Suitable Substrates
When properly prepared, suitable substrates include:

- Cured concrete, cured mortar beds, brick and masonry (interior and exterior installations)
- APA Grade Trademarked Exposure 1 Plywood [Underlayment grade or better, two layers, 1/4" (28 mm) total minimum thickness for joists 16" (40 cm) o.c., interior floors only].
- Gypsum wallboard (dry interior wall areas only)
- Water resistant gypsum wallboard (i.e.: greenboard, interior walls only, dry to intermittent water exposure only)
- Cementitious backer units (CBU) or glass mat backerboard
- Existing ceramic tile and natural stone, provided existing flooring is well-bonded to an approved substrate.
- Vinyl composition tile, asphalt tile, linoleum or non-cushioned vinyl sheet goods provided such surfaces are single layered, well-bonded to an approved substrate and properly prepared.
- Adhesive residue (except tacky or pressure-sensitive adhesive)

Substrate Preparation
All substrates must be dry, structurally sound with maximum deflection per industry standards of ½”/ft for ceramic tile installations and ½”/ft for natural stone installations; and free from oil, grease, dust, paint, sealers or concrete curing compounds. All contaminants must be removed prior to installation of tile. Surface protrusions and tile glazes shall be removed by sanding, scraping or scarifying. For installation over asphalt-based cutback adhesive, remove adhesive by scraping until all that remains is a thin, transparent layer of adhesive residue. After preparation, remove all dust by vacuuming.

Notes: Vinyl asbestos tile or any substrate containing asbestos must not be sanded, scored or scarified because of the potential health hazard of breathing dust. Any substrate containing asbestos must be handled in accordance with existing EPA regulations. Contact your local EPA office.

Expansion joints must be provided in the tile work over all construction, control and expansion joints in the backing and where backing materials change. Follow ANSI A108.01 Section 3.7 Requirements for Expansion Joints.

Maximum variations in all substrates must not exceed ¼” in 10 ft. (6 mm in 3 m) from the required plane. For non-level, interior surfaces use TEC® EZ Level® Premium Self Leveling Underlayment.

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

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

Limitations

- Not for installing green marble and other moisture-sensitive stone tile or resin-backed marble; use TEC® AccuColor EFX® Epoxy Grout and Mortar.
- For non-green marble tile applications, use white thin set mortars.
- Not for use over rubber, strip wood floors, oriented strand board, particle board, lauan plywood.
- For CDX plywood, use TEC® Super Flex™ mortar.
- Do not apply over single layer wood floors.
- Temperature of area to be tiled must remain above 50°F (10°C) for 72 hours.
- Certain natural stone tiles may be affected by mortar shadowing or staining. Test a small area prior to use to determine suitability.

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
Meets ANSI A118.4E and A118.11 specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>ANSI Requirement</th>
<th>Typical Results</th>
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</thead>
<tbody>
<tr>
<td>SturdiLight™ Lightweight Mortar (354/355)</td>
<td></td>
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<tr>
<td>28 Day Shear Strength</td>
<td></td>
<td></td>
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<tr>
<td>Glazed Wall Tile</td>
<td>&gt; 300 psi (2.1 MPa)</td>
<td>&gt; 400 psi (2.7 MPa)</td>
</tr>
<tr>
<td>Impervious Ceramic Tile (Porcelain)</td>
<td>&gt; 200 psi (1.4 MPa)</td>
<td>290 psi (2.0 MPa)</td>
</tr>
<tr>
<td>Quarry Tile</td>
<td>&gt; 150 psi (1.0 MPa)</td>
<td>300 psi (2.1 MPa)</td>
</tr>
<tr>
<td>Open Time at Room Temperature</td>
<td>≥ 50 minutes</td>
<td>70-90 minutes</td>
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</tbody>
</table>

Physical Properties

<table>
<thead>
<tr>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Physical State</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Pot Life</td>
</tr>
<tr>
<td>Initial Cure [at 72°F (22°C)]</td>
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<tr>
<td>Final Cure</td>
</tr>
<tr>
<td>Foot Traffic Rating (ASTM C627)</td>
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<tr>
<td>Storage</td>
</tr>
<tr>
<td>Shelf Life</td>
</tr>
</tbody>
</table>

5. INSTALLATION INSTRUCTIONS

Mixing

For best results, maintain all tiling materials, substrates, room and adhesives at 50°-70°F (10-21°C) for 24 hours before installation. Maintain recommended room temperature for 48 hours after installation. In a clean mixing container, pour 7/4-7/4 quarts (6.9-7.3 L) clean, cool water. Add ½ bag of SturdiLight™ Mortar and mix until all powder is consumed. Add final ½ bag and mix until powder is consumed. Add final ½ bag and mix to a thick creamy consistency. Avoid breathing dust and contact with eyes or skin. Allow the mortar to stand for 10 minutes. Remix and apply. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air.

Application

Apply mortar 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 40-60 minutes). Press tiles into setting bed, then push in a direction perpendicular to the notched trowel ridges to achieve optimum coverage. Apply mortar in a heavy enough layer so that complete contact (no voids) between mortar and tile is accomplished when tile is positioned. It may be necessary to “back-butter” large tiles to achieve complete coverage and firm support. Periodically remove and check a tile to assure proper coverage. Keep a minimum of ½ of the joint depth between tiles for grouting. Open time and tile hand adjustability may vary with job site conditions. Stir occasionally during use to maintain the smooth, creamy consistency of the product. Do not add additional water.

Clean-up

Clean tools, hands, and excess materials from face of tile, while mortar is still fresh, with warm soapy water.

Grouting/Curing

Grouting may be accomplished when tiles are held firmly in place, typically 16 to 24 hours after installation is completed. No traffic is permitted over the tiles prior to grouting. Cold temperatures or high humidity may extend curing time. Unglazed tiles may require sealing prior to grouting so discolorations will not occur. 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