1. PRODUCT NAME
TEC® Uncoupling Membrane Mortar (337/338)

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
tecspecialty.com

3. DESCRIPTION
TEC® Uncoupling Membrane Mortar is a dry set mortar made for use with uncoupling membrane and waterproofing membrane.

Key Features and Benefits
• Mixed with water, meets ANSI A118.1 specifications
• Mixed with TEC® Acrylbond® AMA Acrylic Latex Mortar Additive, meets ANSI A118.4 and ANSI A118.11 specifications
• Ideal for use as a medium bed mortar for large format tile
• Contributes to LEED® certification
• Zero VOC
• Contains recycled materials*
* Gray formula contains 2-6.5% pre-consumer recycled material.
White formula contains 0% pre-consumer recycled material.

Packaging
50 lb. (22.68 kg) moisture-resistant bags
Gray  Product #7106863111
White  Product #7108633111

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 50 lbs. (22.68 KG)</th>
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</thead>
<tbody>
<tr>
<td>⅛” x ⅛” (6 x 4.7 mm) V-notch</td>
<td>150-200 sq. ft. (13.9-18.6 m²)</td>
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<tr>
<td>⅛” x ⅛” (6 x 9 mm) square-notch</td>
<td>40-50 sq. ft. (3.7-4.6 m²)</td>
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<tr>
<td>⅞” (12 mm) square-notch</td>
<td>30-40 sq. ft. (2.8-3.7 m²)</td>
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<tr>
<td>⅜” (19 mm) rounded-notch</td>
<td>25-35 sq. ft. (2.3-3.3 m²)</td>
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<tr>
<td>⅝” x ⅝” (6 x 9 mm) square-notch</td>
<td>65-75 sq. ft. (6.0-7.0 m²)</td>
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<tr>
<td>⅝” (19 mm) rounded-notch</td>
<td>35-40 sq. ft. (3.3-3.7 m²)</td>
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</tbody>
</table>

To bond larger than 12” x 12” (30 x 30 cm) to Uncoupling Membrane

To bond larger than 12” x 12” (30 x 30 cm) to Waterproofing Membrane

To bond Tile to Uncoupling Membrane

To bond Tile to Waterproofing Membrane

NOTE: Maximum allowable trowel size is ⅛” x ⅛” (19 x 19 mm).

Suitable Substrates
When properly prepared, suitable substrates include:
• Concrete and cured mortar beds
• APA Grade Trademarked Exposure 1 Plywood. Requires use with TEC® Acrylbond® AMA additive.

Drywall*
Cementitious backer units (CBU)

Uncoupling Membrane Manufacturers may list additional substrates, such as gypsum underlayment and oriented strand board (OSB), as suitable for its uncoupling membranes. However, H.B. Fuller Construction Products Inc. (“HFB-CP”) does not recommend them. As such the HFB-CP warranty for TEC® Uncoupling Membrane Mortar does not apply to these substrates.

Surface Preparation
All substrates must be dry, structurally sound, in conformance with applicable building codes when subjected to live and dead loads and free from oil, grease, dust, paint, sealers or concrete curing compounds. All contaminants should be removed prior to installation of tile. Surface protrusions and tile glazes shall be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming.

Note: Follow ANSI A108.01 Section 3.7 Requirements for Expansion Joints.

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, 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 TEC® Uncoupling Membrane Mortar.
• Not for use with glass tile unless used with additive.
• Not for use over rubber, strip wood floors, oriented strand board, masonite, particle board, lauan or C&D plywood or similar unstable substrates.
• Do not apply directly over approved plywood subfloors, waterproofing or crack isolation membranes unless the mortar has been mixed with additive.
• Do not use where hydrostatic pressure can occur.
• Follow TCNA specifications surface preparation and tile installation.
• Mortar should not be applied when the temperature of the area and substrate to be tiled is below 50°F (10°C), as this delays the curing process.
• 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 1-888-863-1798.

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
Physical Properties

<table>
<thead>
<tr>
<th>TEC® Uncoupling Membrane Mortar (337/338)</th>
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<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Physical State</td>
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<tr>
<td>Color</td>
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<tr>
<td>Pot Life</td>
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<tr>
<td>Initial Cure</td>
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<tr>
<td>Final Cure</td>
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<tr>
<td>Storage</td>
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<tr>
<td>Shelf Life</td>
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</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 and after installation. Thoroughly mix 50 lbs. (22.68 kg) TEC® Uncoupling Membrane Mortar with 5 to 6 quarts (4.7 to 5.7 L) clean, cool water. Where needed, mix TEC® Uncoupling Membrane Mortar with TEC® Acrylbond® AMA additive in place of water. Add powder to liquid for ease of mixing. Mix material to a thick creamy consistency, then allow the mortar to stand for 10 minutes. Remix and apply. Avoid breathing dust and contact with eyes and skin. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air.

Uncoupling Membrane Installation Instructions

IMPORTANT: Installation shall be in accordance with the most recently published manufacturers literature and applicable industry standards. Read information completely prior to installation. Contact the manufacturer with any questions regarding construction of the tile assembly. Follow applicable TCNA and ANSI industry standard guidelines.

Uncoupling Membrane Installation: Apply a skim coat of mortar using flat side of trowel to promote better substrate contact. Apply additional mortar with a ¼” x ⅜” (6 x 4.7 mm) or ½” x ⅞” (8 x 8 mm) V-notched trowel held at a 45° angle to the surface, combing in one direction. Spread only an area that the Uncoupling Membrane can be installed while surface is still tacky (typically 20-30 minutes). If any evidence of skinning or setting occurs, remove and replace with fresh mortar. Apply Uncoupling Membrane to the mortar fleece side down. Work Uncoupling Membrane into the mortar using the flat side of the trowel, float or roller to embed the mortar into the fleece throughout the entire surface. Periodically lift up a corner of the membrane to assure proper coverage of the fleece.

Waterproofing Membrane Installation*: Apply a skim coat of mortar using flat side of trowel to promote better substrate contact. Apply additional mortar with a ¼” x ⅜” (6 x 4.7 mm) V-notched trowel or ⅛” x ⅜” (3 x 3 mm) square-notched trowel held at a 45° angle to the surface, combing in one direction. Spread only an area that the Waterproofing Membrane can be installed while surface is still tacky (typically 20-30 minutes). If any evidence of skinning or setting occurs, remove and replace with fresh mortar. Apply Waterproofing Membrane to the mortar. Work Waterproofing Membrane into the mortar using the flat side of the trowel to ensure proper adhesion and remove air pockets. Periodically lift up a corner of the membrane to assure proper coverage of the fleece.

For membranes that require ANSI A118.4 mortar, mix with TEC® Acrylbond® AMA.

Cleaning
Clean, with warm soapy water. Do not allow material to dry on surface of tile.

Curing/Protection
Grouting may be accomplished when tiles are held firmly in place, typically 12 to 16 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

Conforms with LEED v4 low emitting interiors.
Compliant with (CPH) Standard Method v1.2 VOC Emissions.