



Full Contact Mortar

1. PRODUCT NAME

TEC® Full Contact Mortar
(369)

2. MANUFACTURER

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800.552.6225 Office
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3. DESCRIPTION

TEC® Full Contact Mortar is a premium, full-contact, polymer-modified mortar used for bonding stone, granite, marble and tile 16" x 16" (40 x 40 cm) and larger to floors. Mixed with water, it exceeds ANSI A118.4E and ANSI A118.11 specifications. Use interior and exterior.

Key Features and Benefits

- Eases installation of stone and large floor tile
- Extended open time
- Superior transfer – full coverage with minimum effort
- Contributes to LEED® project points
- VOC 0

Packaging

50 lb. moisture-resistant bags (22.68 kg)
White

Product #7076943111

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.

| Trowel Size | Approximate Coverage per 50 lbs. (22.68 kg) |
|---|---|
| ¼" x ¼" x ¼" (6 x 6 x 6 mm) square-notch trowel | 80-90 sq. ft. (7.4-8.4 m ²) |
| ¼" x ⅜" x ¼" (6 x 9 x 6 mm) square-notch trowel | 66-74 sq. ft. (6.1-6.9 m ²) |
| ⅜" x ⅜" x ⅜" (9 x 9 x 9 mm) square-notch trowel | 53-60 sq. ft. (4.9-5.6 m ²) |
| ½" x ½" x ½" (12 x 12 x 12 mm) square-notch trowel | 40-45 sq. ft. (3.7-4.2 m ²) |
| ¾" x ⅝" x ⅝" (19 x 14 x 9 mm) rounded-notch trowel | 26-30 sq. ft. (2.4-2.8 m ²) |

Suitable Substrates

When properly prepared, suitable substrates include:

- Cementitious backer units (CBU)
- Glass mat backerboard
- Cured concrete, cured mortar beds, brick and masonry
- APA Grade Trademarked Exposure 1 Plywood [underlayment grade or better, two layers, 1½" (28 mm) total minimum thickness, interior floors only]
- 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 existing flooring is well-bonded to an approved substrate)
- Adhesive residue (except tacky or pressure-sensitive adhesive)

Substrate Preparation

All substrates must be dry, structurally sound with maximum deflection per industry standards of 1/360 for ceramic tile installations and 1/720 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. 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) and 1/16" in 1 ft. (1.6 mm in 0.3 m) from the required plane. For large 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

- Do not use for wall applications.
- Not for use over rubber, strip wood floors, oriented strand board, particle board or lauan plywood.
- Do not apply over single layer wood floors.
- For CDX plywood, use TEC® Super Flex™ mortar or TEC® XtraFlex™ acrylic mortar additive with TEC® Full Set Plus® thin set mortar.
- 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

Physical Properties

| Description | |
|---------------------------------|---|
| Physical State | Dry powder |
| Color | Available in white |
| Pot Life | 3 to 4 hours |
| Initial Cure [at 72°F (22°C)] | 16 to 24 hours |
| Final Cure | 21 days |
| Foot Traffic Rating (ASTM C627) | Residential to Extra Heavy Commercial (depending on substrate) |
| Storage | Store in cool, dry location. Do not store open containers. |
| Shelf Life | Maximum 1 year from date of manufacture in properly stored, unopened package. |

Applicable Standard

Exceeds ANSI A118.4E and A118.11 specifications
ISO 13007: Classification C2EP1

| TEC® Full Contact Mortar (369) | | | | | |
|--------------------------------|--------------------------------------|---------|--------------------------|-------------------------------------|-----------------|
| ANSI Standard | Test | Section | Test Duration/Conditions | ANSI Specification | Typical Results |
| A118.11 | Shear Strength to Quarry Tile | 4.1.2 | 28 day plywood | >150 psi (10.5 kg/cm ²) | 305 |
| A118.4 | Glazed Wall Tile Shear Strength | 7.1.2 | 7 day | >300 psi (2.07 MPa) | 555 |
| | Porcelain Mosaic Tile Shear Strength | 7.2.5 | 28 day | >200 psi (1.38 MPa) | 300 |
| | Quarry Tile Shear Strength | 7.3.2 | 28 day | 150 psi (1.03 MPa) | 430 |
| A118.4E | Open Time | 5.3.6 | 30 minute | 75 psi (0.5 MPa) at 30 minutes | 165 |

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

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 48 hours after installation. Avoid breathing dust and contact with eyes and skin. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air. Add powder to liquid for ease of mixing.

In a clean mixing container, slowly add product to 4.5 to 5 quarts (4.26-4.73 L) clean, cool water. Mix material for 2-5 minutes to a thick creamy consistency, then allow the mortar to stand for 10 minutes. Remix for 1-2 minutes and apply.

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 20-30 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. Periodically remove and check a tile to assure proper coverage. Keep a minimum of 2/3 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 discoloration 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 (CDPH) Standard Method v1.2 VOC Emissions.



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DS369 R0920-20