



AccuColor EFX® Epoxy Special Effects Grout for use as a Mortar

1. PRODUCT NAME

TEC® AccuColor EFX® Epoxy Special Effects Grout (440)

2. MANUFACTURER

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3. DESCRIPTION

A dual-purpose mortar/grout, three-part epoxy system for interior (both interior/ exterior when used as grout) floors, walls and countertops is designed for residential to extra heavy commercial use. When used as a mortar, this system is designed for installing green marble and other moisture-sensitive stones and agglomerates over a wide variety of surfaces, including cold rolled steel.

Note: This data sheet describes AccuColor EFX® Epoxy Grout for **use as a mortar**. Refer to the Grout version of this data sheet for **use as a grout**.

Key Features and Benefits

- Excellent stain resistance
- High chemical resistance
- Extremely durable and impact resistant
- Superior UV stability reduces yellowing
- Available in 700+ colors with optional metallic and glow-in-the dark effects. (See "Colors" section for availability)
- Easy application
- Meets or exceeds ANSI A118.3 Standards
- Part A contains 12% pre-consumer recycled material
- Contributes to LEED® project points
- VOC 0

Packaging

3 Gallon (11.35 L) Kit:
Part A: Two ½ Gallon (64 fl. oz.) (1.89 L), Resin/Pigment sold separately
Parts B & C: Two 22.6 fl. oz. (.67 L) Part B and two 11.1 lbs (5.03 kg)
Parts B & C packaged in a 5 gallon plastic pail (18.92 L)

Colors

Part A (½ gallon/64 fl. oz./1.89 L): Available in 12 standard colors and 700+ formulated special order colors with optional metallic (bronze, silver and gold) or glow-in-the dark enhancers.

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. The following figures are presented only as guidelines.

Recommended Trowel Size	Approximate Coverage	
	per 3 gallon kit (11.35 L)	per 1.5 gallon kit (5.68 L)
¼" x ¼" x ¼" (6 x 6 x 6 mm) square-notch trowel	50-55 sq. ft. (4.6-5.1 m²)	25-28 sq. ft. (2.3-2.6 m²)
¼" x ⅜" x ¼" (6 x 9 x 6 mm) square-notch trowel	30-35 sq. ft. (2.8-3.3 m²)	15-18 sq. ft. (1.4-1.7 m²)

Suitable Substrates

Cured concrete, cured mortar beds, gypsum wallboard, masonry, brick, existing ceramic tile and natural stone—Surfaces to be tiled shall be structurally sound, dry and free from oil, grease, dust, loose or peeling paint, sealers or concrete curing compounds. All contaminants must be removed prior to installation of tile. Surface protrusions and tile glazes will be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming.

Vinyl composition tiles, resilient tiles, asphalt tiles, linoleum or non-cushioned vinyl sheet goods—All linoleum must be sanded, stripped and cleaned of waxes, dirt and any contaminants that will interfere or prevent a good bond with adhesive. After preparation, remove all dust by vacuuming.

Adhesive residue is acceptable provided the adhesive is well-bonded to an approved substrate. Scrape and remove adhesive until all that remains is a thin, transparent layer. Loose adhesive may prevent a good bond between tile and substrate, resulting in installation failure. Do not install over tacky or pressure-sensitive adhesives.

APA Grade Trademarked Exposure 1 Plywood—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. Installations require two layers, 1⅛" (28 mm) total minimum thickness on bridged floor joists 16" (40 cm) on center, with a maximum deflection of ⅓₆₀ of the span. Joints in the top layer should be offset from joints in the bottom layer of plywood. A gap ⅛" to ¼" (3-6 mm) is required between overlay sheets and all materials they abut such as walls, posts, and adjacent sheets. Adjacent edges of plywood sheets shall not be more than ⅓₂" (0.8 mm) above or below each other.

Cementitious Backer Units (CBU)—Follow manufacturer's installation directions.

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) or ⅓₁₆" in 1 ft. (1.6 mm in 0.3 m) from the required plane. For non-level, interior surfaces use TEC® EZ Level® Premium Self Leveling Underlayment.

Storage

Freeze/thaw stable. Store in a dry location. Do not store open containers.

Shelf Life

Maximum shelf life is from date of manufacture in unopened package.
Part A: 18 months Part B: 12 months Part C: Unlimited

Limitations

- When used as a mortar, AccuColor EFX® Epoxy Grout is recommended for interior use only.
- Not recommended for soft polished marble or delicate glazed tiles.
- Not for use over rubber or strip wood floors.
- For setting light colored marble or stone, use 931 Standard White epoxy mortar.
- Do not apply over dimensionally unstable surfaces such as: single-layer wood floors, lauan plywood, particle board, oriented strand board or poured gypsum underlayments.
- AccuColor EFX® Epoxy Grout should not be applied when the temperature of the area to be tiled is below 60°F (16°C) as this delays the curing process. Maintain working temperature at 60-90°F (16-32°C).
- Note that yellowing from UV exposure can occur in any 100% solids epoxy product, and for this reason, H.B. Fuller Construction Products Inc. cannot guarantee that yellowing will not occur.

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 or exceeds ANSI A118.3 specifications.

AccuColor EFX® Epoxy Special Effects Grout (440)		
Description	ANSI Requirement	Typical Results
Bond Strength Quarry Tile	1000 psi (6.9 MPa)	> 1300 psi (9.0 MPa)
7 Day Compressive Strength (ASTM C579)	3500 psi (24.2 MPa)	> 5000 psi (34.2 MPa)
7 Day Tensile Strength (ASTM C307)	1000 psi (6.9 MPa)	> 1500 psi (10.3 MPa)
<i>Tested in accordance with ANSI A118.3 Specifications for Chemical Resistance, Water Cleanable, Tile Setting, and Grouting with 100% Epoxy</i>		
7 Day Linear Shrinkage	< 0.25% shrinkage	0.06% shrinkage

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

Physical Properties

Description	
Physical State	Paste, once mixed
Pot Life [at 70°F (21°C)]	90 minutes
Initial Set	10 to 14 hours
Storage	Store in cool, dry location. Do not store in direct sunlight.
Shelf Life	Maximum shelf life is from date of manufacture in properly stored, unopened package. Part A: 18 months Part B: 12 months Part C: Unlimited

5. INSTALLATION INSTRUCTIONS

Mixing

All tiling materials, room and product should be kept at 60-90°F (16-32°C) for 24 hours before, during and after application. All materials and equipment used in mixing AccuColor EFX® Epoxy Grout must be clean and dry. Wear rubber gloves to avoid skin contact. Separately stir individual containers of Part A and Part B prior to blending together, using a different paddle to stir each component.

Pour Part A and Part B into the mixing pail provided with this kit, scraping all material from each container. Blend thoroughly with a low speed mixer (not to exceed 300 rpm) to avoid entraining air for a minimum of 3 minutes. Continue mixing and slowly add the dry powder Part C. Use entire quantity of Part C for use as a wall grout.

If easier workability is desired for floor installations, use less Part C. For 3 Gallon (11.35 L) Kit, use up to 1 quart (.95 L) less of Part C. For 1.5 Gallon (5.68 L) Kit, use up to ½ quart (.47 L) less of Part C.

Application

Apply mortar using the flat side of trowel to promote better substrate contact. Then, using the appropriate notched trowel, comb the mortar uniformly in a ridged pattern. Spread only an area that can be tiled in 20 to 30 minutes (or while surface is still tacky). Press, twist and beat tiles into setting bed to promote a good bond. Apply mortar in a heavy enough layer so that complete contact (no voids) between adhesive and tile is accomplished when tile is positioned. Keep a minimum of ⅓ of the joint depth available for grouting.

Remove any excess mortar squeezed out of grout joints, on face of tile, within 5 minutes with a clean sponge and water. Remove spacers, if used. For additional information, refer to ANSI A108.6 installation details. Average working time of AccuColor EFX® Epoxy Grout is 1-2 hours.

Clean-up

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

Curing

Grouting may be accomplished when tiles are held firmly in place, typically 10 to 14 hours after installation is completed. No traffic is permitted over the tiles prior to grouting. 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



tecspecialty.com