



AccuColor EFX® Epoxy Grout and Mortar

1. PRODUCT NAME

TEC® AccuColor EFX® Epoxy Grout and Mortar (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. Used as a grout, this system is recommended wherever complete stain or chemical resistance is required and/or desired. High temperature (HT) formula is approved for surfaces subject to extreme heat or steam cleaning [up to 350°F (177°C)]. Used as a mortar, this system is ideal for installing green marble and other moisture-sensitive stones and agglomerates over a wide variety of substrates, including cold rolled steel.

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

Key Features and Benefits

- Improved clean-up
- Excellent stain resistance
- High chemical resistance
- Easy application
- Extremely durable and impact resistant
- Superior UV stability reduces yellowing
- For grouting installations in Foodservice Operations such as commercial kitchens where enzymatic cleaners are used.
- Ideal for grouting walls [up to ¼" (6 mm) grout joint], floors, and countertops
- Meets or exceeds ANSI A118.3 Standards
- Part A contains 12% pre-consumer recycled material
- Contributes to LEED® project points
- VOC 0

Coverage

Figures shown in the chart are presented only as guidelines.

Tile Size	Joint Width in inches (mm)									
	1/16"	1/8"	1/4"	3/8"	1/2"	1/16"	1/8"	1/4"	3/8"	1/2"
	(1.6)	(3)	(6)	(9)	(12)	(1.6)	(3)	(6)	(9)	(12)
Approximate coverage in square feet (m²)										
per 3 gallon kit (11.35 L)					per 1.5 gallon kit (5.68 L)					
1" x 1" x 1/4" (25 x 25 x 6 mm)	114 (10.6)	57 (5.3)	28 (2.6)	19 (1.8)	14 (1.3)	57 (5.3)	29 (2.7)	14 (1.3)	10 (0.9)	7 (0.7)
2" x 2" x 1/4" (50 x 50 x 6 mm)	229 (21.3)	114 (10.6)	57 (5.3)	38 (3.5)	28 (2.6)	115 (10.7)	57 (5.3)	29 (2.7)	19 (1.8)	14 (1.3)
4 1/4" x 4 1/4" x 5/16" (108 x 108 x 8 mm)	339 (36.1)	194 (18.0)	97 (9.0)	64 (5.9)	48 (4.5)	195 (18.1)	97 (9.0)	49 (4.5)	32 (3.0)	24 (2.3)
4" x 8" x 1/2" (100 x 200 x 12 mm)	305 (28.3)	152 (14.1)	76 (7.1)	50 (4.6)	38 (3.5)	153 (14.2)	76 (7.1)	38 (3.6)	25 (2.3)	19 (1.8)
6" x 6" x 5/16" (150 x 150 x 8 mm)	549 (51.0)	274 (25.5)	137 (12.7)	91 (8.5)	68 (6.3)	275 (25.5)	137 (12.8)	69 (6.4)	46 (4.3)	34 (3.2)
6" x 6" x 1/2" (150 x 150 x 12 mm)	343 (31.9)	171 (15.9)	85 (7.9)	57 (5.3)	42 (3.9)	172 (16.0)	86 (8.0)	43 (4.0)	29 (2.7)	21 (2.0)
8" x 8" x 5/16" (200 x 200 x 8 mm)	733 (68.1)	366 (34.0)	183 (17.0)	122 (11.3)	91 (8.5)	367 (34.1)	183 (17.0)	92 (8.5)	61 (5.7)	46 (4.3)

Tile Size	Joint Width in inches (mm)									
	1/16"	1/8"	1/4"	3/8"	1/2"	1/16"	1/8"	1/4"	3/8"	1/2"
	(1.6)	(3)	(6)	(9)	(12)	(1.6)	(3)	(6)	(9)	(12)
Approximate coverage in square feet (m²)										
per 3 gallon kit (11.35 L)					per 1.5 gallon kit (5.68 L)					
8" x 8" x 1/2" (200 x 200 x 9 mm)	458 (42.5)	229 (21.3)	114 (10.6)	76 (7.1)	57 (5.3)	229 (21.3)	115 (10.7)	57 (5.3)	38 (3.6)	29 (2.7)
12" x 12" x 5/16" (300 x 300 x 8 mm)	1099 (102.1)	549 (51.0)	274 (25.5)	183 (17.0)	137 (12.7)	550 (51.1)	275 (25.5)	137 (12.8)	92 (8.5)	69 (6.4)
16" x 16" x 5/16" (400 x 400 x 8 mm)	1466 (136.2)	733 (68.1)	366 (34.0)	244 (22.7)	183 (17.0)	733 (68.1)	367 (34.1)	183 (17.0)	122 (11.4)	92 (8.5)

* Not for wall grout applications.

Packaging

3 Gallon (11.35 L) Kit:

Part A: Two 1/2 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 (1/2 gallon/64 fl. oz./1.89 L): Available in 12 standard colors and 700+ formulated special order colors (minimum quantities apply).

Storage

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

Shelf Life

Maximum of 18 months from date of manufacture in unopened package.

Limitations

- When used as a mortar, AccuColor EFX® Epoxy Grout and Mortar is for interior use only.
- When used as a grout, AccuColor EFX® Epoxy Grout and Mortar is recommended for interior and exterior applications.
- 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 910 Bright White 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 and Mortar 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

ANSI 118.3 Chemical Resistance (ASTM C267)

AccuColor EFX® Epoxy Grout and Mortar (440)					
Chemical Name	Room Temp.	Boiling	Chemical Name	Room Temp.	Boiling
Acetic Acid 3%	R	R	Carbon Disulfide	C	—
Acetic Acid 10%	N	R	Carbon Tetrachloride	R	R
Acetic Anhydride	N	—	Chloroacetic Acid 10%	N	R
Acetic Acid Glacial	N	N	Chloroacetic Acid 50%	N	N
Acetone	N	C	Citric Acid 20%	R	R
Aluminum Fluoride	R	R	Chlorobenzene	N	—
Ammonium Bromide	R	R	Chlorine Water (Bleach)	R	R
Amyl Alcohol	R	N	Chromic Acid 10%	R	R
Aniline	N	—	Cooking Grease	R	N
Barium Hydroxide	R	R	Cresol	N	N
Beer	R	R	Ethyl Alcohol	C	R
Benzaldehyde	N	—	Ethyl Amine	N	R
Benzene	N	N	Ethyl Bromide	N	R
Benzyl Acetate	C	N	Ferric Chloride	R	R
Benzyl Alcohol	N	—	Formic Acid Glacial	N	N
Bromine Water	R	R	Formic Acid 10%	N	R
Butanol	R	R	Household Ammonia	R	R
Butyl Acetate	N	N	Hydrobromic Acid 10%	R	R
Butyl Cellosolve	N	N	Hydrochloric Acid 10%	R	R
Calcium Chloride	R	R	Hydrochloric Acid 37%	R	R
Calcium Hydroxide	R	R	Hydrofluoric Acid 10%	R	R
Hydrofluoric Acid 48%	R	—	Sodium Hypochlorite	R	R
Hydroic Acid 20%	R	R	Sodium Hydroxide	R	R
Lactic Acid 3%	N	R	Soy Sauce	R	R
Lactic Acid 10%	N	R	Sulfuric Acid 10%	R	N
Nitric Acid 10%	R	R	Sulfuric Acid 45%	R	R
Nitric Acid 50%	N	N	Sulfuric Acid 95%	N	N
Nitrobenzene	N	—	Tetrahydrofuran	N	N
Nitrotoluene	N	R	Trisodium Phosphate 5%	R	R
Oleic Acid	R	R	Vegetable Oil	R	R
Phenol	N	N	Wine	R	R
Phosphoric Acid 10%	R	R			
Potassium Hydroxide 5%	R	R			
Potassium Hypochlorite	R	R			
Potassium Persulfate	N	N			
Pyridine	N	N			
Pyridine 20%	C	N			
Sat. Sugar Soln	R	R			
Sodium Carbonate	R	R			

KEY

R = No Visual Deterioration and Compressive Strength >4000 psi
 C = No Visual Deterioration and Compressive Strength <4000 psi
 N = Visual Deterioration
 — = Not Tested

Data for Epoxies is Based on Immersion Testing.
 Room Temperature testing is conducted for 28 days.
 Boiling tests are run for 1 hour

Applicable Standard

Meets or exceeds ANSI A118.3 specifications

AccuColor EFX® Epoxy Grout and Mortar (440)		
Description	ANSI Requirement	Typical Results
Bond Strength Quarry Tile	1000 psi (6.9 MPa)	> 1300 psi (9.0 MPa)
7 Day Linear Shrinkage <i>Tested in accordance with ANSI A118.3 Specifications for Chemical Resistance, Water Cleanable, Tile Setting, and Grouting with 100% Epoxy.</i>	< 0.25% shrinkage	0.06% shrinkage
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)

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
Final Cure	28 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial (depending on substrate)
Storage	Store in cool, dry location. Do not store in direct sunlight. Do not store open containers.
Shelf Life	Maximum 18 months from date of manufacture in properly stored, unopened package

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 and Mortar 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 1½ quarts (1.42 L) less of Part C.
 For 1.5 Gallon (5.68 L) Kit, use up to ¾ quart (.71 L) less of Part C.

Application

Tile and joint surfaces must be clean and dry. Pour the entire mixed grout unit into multiple piles on the surface to be grouted, leaving none in pail. Fully pack the grout joints with a clean, hard rubber epoxy float. Force the grout into the joints to eliminate any gaps or air pockets. Work only a small area at one time [15-20 sq. ft. (1.4-1.9 m²)]. Apply in a diagonal direction across the tile to prevent the grout from being dragged out of the joints. Remove any excess grout from the surface of the tile by holding the float at a 90° angle to the surface and moving it diagonally across the grout joints. Clean tiles immediately. Do not allow epoxy to harden on face of tile.

Clean-up

The use of TEC® AccuColor EFX® Clean-up Water Concentrate (442) is highly recommended. Add ½ cup (118 mL) AccuColor EFX® Clean-up Water Concentrate to 4 gallons (15.14 L) rinse water.

Lightly scour the tiled surface with a nylon scrubbing pad and plenty of clean water*. Wipe across tiles diagonally to avoid removing grout from joints. Wipe remaining grout residue off tile with a grout sponge and clean water*. Rinse often. Repeat until cleaned. Frequent change out of clean-up water* is recommended. Use a pail of fresh clean water* every 40 to 50 square feet. NOTE: During clean-up, protect ungrouted joints from water.

Inspect the installed grout the next day to determine if residual haze is present on the tile surface. For removing any remaining grout residue, use a grout haze remover.

*For best results use of TEC® AccuColor EFX® Clean-up Water Concentrate (442)

Curing/Additional Information

Job may be opened to light traffic and intermittent water exposure 24 hours after grouting. Complete cure and stain resistance will be achieved in 7 days. Minor color variations may exist from batch to batch. Therefore, before using AccuColor EFX® Epoxy Grout and Mortar, check for matching lot numbers on each pail. If you find it necessary to use more than one lot number per color, plan the use of individual lots for different areas to diminish the appearance of any shade variations.

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



To learn more, visit TECspecialty.com



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