



Power Grout®

1. PRODUCT NAME

TEC® Power Grout®
(550)

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
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Aurora, IL 60504-6451 U.S.A.
800.552.6225 Office
800.832.9023 Technical Support
800.952.2368 Fax
tecspecialty.com

3. DESCRIPTION

Power Grout® is a unique breakthrough in grout technology. It maximizes performance while providing ease of use. Its unique formulation is stain proof* and provides strong, color consistent joints free of efflorescence that is resistant to shrinking and cracking.

Power Grout® provides excellent performance in virtually any environment, including high traffic and wet conditions, and in residential and commercial applications.

Key Features and Benefits

- Stain proof* - never needs sealing
- Color uniformity and zero efflorescence
- Fast setting; open to traffic in 4 hours
- For grout joints from 1/16" to 1/2" wide (1.6 mm to 12 mm)
- Residential to Extra Heavy Commercial Applications
- Crack and shrink resistant
- Exceeds ANSI A118.7 specifications
- Interior/exterior use
- Mold and mildew resistant
- Contributes to LEED® project points
- Zero VOC

*Power Grout® is stain proof to most common water based stains when cleaned immediately. The prolonged exposure of any stain will increase the likelihood of permanent staining or discoloration of grout surface.

Packaging

25 lb. plastic bags (11.34 kg)
10 lb. plastic bags (4.54 kg)
7 lb. plastic bags (3.18 kg)

Color

Available in 32* colors. Contact H.B. Fuller Construction Products Inc. ("HBF-CP") for a current color selection card.

* In 10 lb. and 25 lb. packaging only. Thirteen colors are available in the 7 lb. bag.

Substrate Preparation

Proper preparation of the tile and joint surfaces is important and will help promote a quality installation. The joints between the tiles should be free from foreign materials, and be at least 2/3 of the thickness of the tile in depth. High ridges of adhesive or mortar should be raked out. Any spacers used should be removed. Tiles should be held firmly in place according to manufacturer's instructions before grouting.

Due to rough surface texture or high porosity, some tiles require sealing prior to grouting. Consult the tile manufacturer's/fabricator's literature for advice regarding this point. For removing any remaining grout residue, use a grout haze remover.

Notes: Power Grout® never needs sealing, however, if the tile or stone is to be sealed after grout is installed, use a compatible solvent based sealer. Test a small area of the tile/stone and grout to ensure you achieve the desired results. If a water-based sealer is required, consult Technical Support for a list of approved sealers or pre-seal the tile/stone. When pre-sealing, do not apply sealer to tile/stone edges as this may prevent proper grout bond.

May scratch polished marble, polished porcelain, glass and/or metal tile or glazed tiles. Follow tile manufacturer/ fabricator recommendations or test a small area prior to use to determine suitability.

For industrial and commercial installations where chemical resistance is required, use TEC® AccuColor EFX® Epoxy Grout and Mortar in accordance with ANSI A118.3 recommendations.

Coverage

Figures shown in the chart are presented only as guidelines.

Approximate Coverage per Pound					
Tile Size	Joint Width				
	1/16"	1/8"	1/4"	3/8"	1/2"
1" x 1" x 1/4"	3.70 s.f.	2.04 s.f.			
2" x 2" x 1/4"	7.14 s.f.	3.83 s.f.			
4" x 4" x 1/2"	7.14 s.f.	3.64 s.f.	1.88 s.f.	1.30 s.f.	1.01 s.f.
4" x 8" x 1/2"	10.0 s.f.	4.86 s.f.	2.48 s.f.	1.69 s.f.	1.30 s.f.
6" x 6" x 1/2"	11.11 s.f.	5.46 s.f.	2.73 s.f.	1.92 s.f.	1.44 s.f.
8" x 8" x 5/16"	25.0 s.f.	11.66 s.f.	5.83 s.f.	3.89 s.f.	2.91 s.f.
8" x 8" x 1/2"	14.29 s.f.	7.29 s.f.	3.64 s.f.	2.43 s.f.	1.82 s.f.
10" x 10" x 5/16"	29.00 s.f.	14.57 s.f.	7.29 s.f.	4.86 s.f.	3.64 s.f.
12" x 12" x 5/16"	35.00 s.f.	17.49 s.f.	8.74 s.f.	5.83 s.f.	4.37 s.f.
16" x 16" x 5/16"	46.5 s.f.	21.86 s.f.	10.93 s.f.	7.29 s.f.	5.46 s.f.
18" x 18" x 5/16"	51.00 s.f.	24.98 s.f.	12.49 s.f.	8.33 s.f.	6.25 s.f.
24" x 24" x 5/16"	100.00 s.f.	34.97 s.f.	17.49 s.f.	11.66 s.f.	8.74 s.f.

Approximate Coverage per Kilogram					
Tile Size	Joint Width				
	1.6 mm (1/16")	3 mm (1/8")	6 mm (1/4")	9 mm (3/8")	12 mm (1/2")
25 x 25 x 6 mm	0.76 m ²	0.42 m ²			
1" x 1" x 1/4"	8.17 s.f.	4.50 s.f.			
50 x 50 x 6 mm	1.47 m ²	0.78 m ²			
2" x 2" x 1/4"	15.81 s.f.	8.44 s.f.			
100 x 100 x 12 mm	1.47 m ²	0.75 m ²	0.38 m ²	0.27 m ²	0.21 m ²
4" x 4" x 1/2"	15.81 s.f.	8.02 s.f.	4.14 s.f.	2.87 s.f.	2.23 s.f.
100 x 200 x 12 mm	2.05 m ²	1.00 m ²	0.51 m ²	0.35 m ²	0.27 m ²
4" x 8" x 1/2"	22.04 s.f.	10.71 s.f.	5.47 s.f.	3.73 s.f.	2.87 s.f.
150 x 150 x 12 mm	2.28 m ²	1.12 m ²	0.56 m ²	0.39 m ²	0.29 m ²
6" x 6" x 1/2"	24.52 s.f.	12.04 s.f.	6.02 s.f.	4.23 s.f.	3.17 s.f.
200 x 200 x 8 mm	5.13 m ²	2.39 m ²	1.19 m ²	0.80 m ²	0.60 m ²
8" x 8" x 5/16"	55.16 s.f.	25.71 s.f.	12.85 s.f.	8.58 s.f.	6.42 s.f.
200 x 200 x 12 mm	2.92 m ²	1.49 m ²	0.75 m ²	0.50 m ²	0.37 m ²
8" x 8" x 1/2"	31.40 s.f.	16.07 s.f.	8.02 s.f.	5.36 s.f.	4.01 s.f.
250 x 250 x 8 mm	5.93 m ²	2.99 m ²	1.49 m ²	1.00 m ²	0.75 m ²
10" x 10" x 5/16"	63.87 s.f.	32.12 s.f.	16.07 s.f.	10.71 s.f.	8.02 s.f.
300 x 300 x 8 mm	7.16 m ²	3.58 m ²	1.79 m ²	1.19 m ²	0.89 m ²
12" x 12" x 5/16"	77.09 s.f.	38.56 s.f.	19.27 s.f.	12.85 s.f.	9.63 s.f.
400 x 400 x 8 mm	9.51 m ²	4.48 m ²	2.24 m ²	1.49 m ²	1.12 m ²
16" x 16" x 5/16"	102.42 s.f.	48.19 s.f.	24.10 s.f.	16.07 s.f.	12.04 s.f.
450 x 450 x 8 mm	10.43 m ²	5.12 m ²	2.56 m ²	1.71 m ²	1.28 m ²
18" x 18" x 5/16"	112.33 s.f.	55.07 s.f.	27.54 s.f.	18.36 s.f.	13.78 s.f.
600 x 600 x 8 mm	20.51 m ²	7.16 m ²	3.58 m ²	2.39 m ²	1.79 m ²
24" x 24" x 5/16"	220.54 s.f.	77.09 s.f.	38.56 s.f.	25.71 s.f.	19.27 s.f.

Storage

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

Shelf Life

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

Limitations

- Jobsite and grout temperature should be 50°-80°F (10°-27°C) for optimal installation.
- Do not install during temperatures below 50°F (10°C).

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

When mixed with water and tested, Power Grout® exceeds ANSI A118.7 Specifications for Ceramic Tile Grouts, Polymer-modified Cement Grout and meets the listed ANSI A118.3 Specifications for Epoxy Grouts. ISO 13007: Classification CG2WAF

Power Grout® (550)		
Description	ANSI A118.7 Requirement	Typical Results
28 Day Compressive Strength	≥ 3000 psi (20.7 MPa)	10,300 psi (71 MPa)
28 Day Tensile Strength	≥ 500 psi (3.4 MPa)	700 psi (4.8 MPa)
28 Day Flexural Strength	≥ 1000 psi (6.9 MPa)	1350 psi (9.3 MPa)
27 Day Linear Shrinkage	< 0.20% shrinkage	0.082% shrinkage
28 Day Water Absorption	< 5% absorption	1.1% absorption
Description	ANSI A118.3 Requirement	Typical Results
7 Day Linear Shrinkage	<.25% shrinkage	0.10-0.11% shrinkage
7 Day Compressive Strength	≥ 3500 psi (24.2 MPa)	7000-8000 psi (48.3-55.2 MPa)
Sag in Vertical Joints	Pass	Pass

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

Physical Properties

Description	
Physical State	Dry powder
Color	Available in 32 colors
Pot Life	35-55 minutes
Stain Resistance	Allow to cure for 7 days to achieve maximum stain resistance.
Initial Cure [at 72°F (22°C)]	3 to 4 hours
Final Cure	21 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial
Storage	Store in cool, dry location. Do not store open bags. Use full bags for installation.
Shelf Life	Maximum 18 months from date of manufacture in unopened package

5. INSTALLATION INSTRUCTIONS

Mixing

For best results pour water in a bucket and then add powder. In a clean mixing container, add Power Grout® to clean, cold water as specified below:

Size	Water
25 lbs. (11.34 kg)	2.25-2.75 quarts [72-88 fl. oz.] (2.13-2.60 L)
10 lbs. (4.54 kg)	3.6-4.4 cups [28.8-35.2 fl.oz.] (0.85-1.04 L)
7 lbs. (3.18 kg)	2.6-3.1 cups [20.2-24.6 fl. oz.] (596-729 mL)

1. Start with the low-end water range. Add water per instructions. Do not over water.
2. Mix with a drill (350 rpm max.) and mixing paddle attachment for a minimum of 2 minutes. Drill mixing is preferred and provides optimal results – hand mixing will yield acceptable results.
 - Do not add more water until mixture has been mixed for 2 minutes. Product consistency will loosen with mixing. Add water with care not to exceed recommended range. Under conditions that can result a shorter pot life, (i.e. hot weather), mix at the top end of the water range to provide more working time.
3. Allow to slake in bucket for 3-5 minutes
4. Remix with drill and mixing paddle for a minimum of 1 minute

Note: HBF-CP recommends that a full container of Power Grout® be mixed and used at one time. However, if less than a full container of grout or multiple containers from different lot numbers are used, pre-mix the entire contents of the container(s) prior to mixing with water. (The fine pigment particles may settle during shipment and color variance can occur in the finished joint unless you first dry blend in this fashion.)

To ensure color consistency across the installation, use the same water to grout proportions when using multiple containers for the same job.

Application

Fully pack the joints between the tiles by spreading Power Grout® with a clean, hard rubber float. Work only a small area at one time [5-10 sq. ft. (0.5-1 m²)]. Apply in a diagonal direction across the joint lines to prevent the grout from being dragged out of the joints. Go over each area several times from all directions to make sure that the grout is fully packed in. 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 joints. Repeat the entire process until all joints are grouted.

When grouting very absorptive tiles e.g. bisque tile and/or for thin grout lines, mix Power Grout® to the highest water ratio. Additionally, pre-moistening the tile edges by spraying or wiping with a damp sponge or towel will help ensure that the grout retains water needed to properly cure.

Clean-up

Allow grout to firm up 15-30 minutes under normal conditions before final cleanup. Check for firmness by touching the grout with your finger. If there is transfer, wait 5 minutes and test again.

Wet a grout sponge in a pail containing cool, fresh water and wring out. Loosen the grout on the tile surface by moving the sponge in a circular motion across the tiles. Then use the sponge to smooth the joints. Completely rinse and wring out the sponge. Wipe diagonally across the tiles to remove grout residue. Use each side of the sponge once, then rinse, completely wring out and repeat. Change the water frequently.

Allow the grout to dry 30 to 60 minutes and remove all remaining grout residue from the tiles with a damp sponge or terrycloth towel.

Protection

Protect the finished installation from foot traffic or impact for at least 4 hours. Wait 24 hours before mopping, routine cleaning or shower use. Do not expose to stains, complete water immersion or freezing for 7 days.

No need to seal grout. If tile or stone is to be sealed after grout is installed, use a compatible solvent based sealer. Test a small area of the tile/stone and grout to ensure you achieve the desired results.

If a water-based sealer is required, consult Technical Support for a list of approved sealers. Allow grout to cure for 72 hours before sealing.

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.

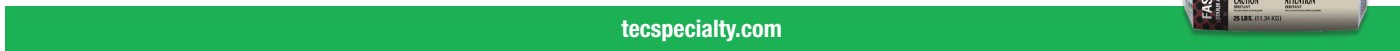
10. FILING SYSTEM

Division 9

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



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