1 Product Name

Polyblend® Plus Sanded Grout

2 Manufacturer

Custom Building Products Technical Services 10400 Pioneer Boulevard, Unit 3 Santa Fe Springs, CA 90670 Customer Support: 800-272-8786 Technical Services: 800-282-8786 Fax: 800- 200-7765 Email: contactus@cbpmail.net custombuildingproducts.com

3 Product Description

A polymer-modified, cement-based sanded grout that produces hard, dense joints that resist shrinking, cracking and wear. Formulated for durability, Polyblend® Sanded Grout accommodates 1/8"-1/2" (3-13 mm) joints for interior or exterior installations, including floors, countertops, walls, ceilings, showers, fountains and pools.

Key Features

- Easy to use Just mix with water
- Polymer fortified for hard, durable, professional results

Uses

- Use to fill joint widths 1/8" to 1/2" (3.2 to 13 mm)
- May be used for both floor and wall installations
- Interior and exterior applications
- Residential and commercial applications
- Countertops, tub surrounds, showers and high traffic areas
- Submerged conditions (swimming pools, spas, water features and fountains)

Suitable Tile Types

- Vitreous, semi-vitreous or non-vitreous tile: ceramic, mosaic, quarry, cement body tiles
- Impervious porcelain and glass tile
- Brick and stone veneer
- Cement-based precast terrazzo
- Natural stone tile

Composition of Product

Polyblend® Sanded Grout is a dry, Portland cement based grout with silica sand, inorganic aggregates and chemicals.

Benefits of Product in the Installation

- Hard, durable grout joints
- · Resists shrinking, cracking, powdering and wear



Limitations to the Product

- Should not be installed when ambient or surface temperature is lower than 50°F (10°C) or higher than 100°F (38°C).
- Some ceramic, glass, marble or stone tiles can be scratched or damaged by the silica aggregate filler. Perform a test on a small area prior to use. <u>Polyblend® Non-Sanded Grout</u> may be appropriate for joints up to 1/8" or for tile not suited for sanded grout.
- Tile or stone with high absorption, surfaces that are porous or rough, textured surfaces and some types of porcelain tile may require sealing prior to grouting to prevent possible staining. Use <u>Aqua Mix® Grout</u> <u>Release</u> or <u>TileLab® SurfaceGard® Sealer</u> to prevent staining when required.
- Color variation can occur due to tile type, tile porosity, jobsite conditions, application and cleaning techniques. Variation can be minimized by following directions and using as little water as possible for cleanup.
- Not for use in either industrial applications or in areas subjected to harsh or continuous chemicals, high heat or high-pressure cleaning.
 For heavy industrial tile installations, use <u>CEG-IG 100% Solids Epoxy</u> <u>Grout</u>.
- Chemicals in salt-based pool filtration systems can cause a reaction with blue, green and red grouts. Contact Technical Services for recommendations.
- Not for use in movement joints or changes of plane in the tile installation. In these areas, use an appropriate caulk or sealant such as <u>Commercial 100% Silicone Caulk</u> or <u>Polyblend® Ceramic Tile</u> <u>Caulk</u>.

Packaging

Available in 3 sizes:

- 1 lb (.45 kg) tub
- 7 lb (3.17 kg) box
- 25 lb (11.34 kg) bag

25 lb bag and 7 lb box are available in 48 standard colors; color matching is available. 1 lb grout is available in 4 colors.



4 Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.10 & A118.6 of the American National Standards for the Installation of Ceramic Tile ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- ASTM C531 Standard Test Method for Linear Shrinkage
- ASTM C580 Standard Test method for Flexural Strength
- ISO 13007-3

Approvals

Polyblend® Sanded Grout exceeds ANSI A118.6 standards.

Technical Chart

Property	Test Method	Requirement	Typical Results
Pot Life			1 - 2 Hours
Shrinkage	A118.6 Section 4.3	< 0.20%	<0.08%
Water Absorption	A118.6 Section 4.4	< 10%	<8%
28 Day Compressive Strength	A118.6 Section 4.5	> 3000 psi	4650 psi (327 kg/cm sq.)
Tensile Strength	A118.6 Section 4.6	> 300 psi	423 psi (29.7 kg/cm sq.)
Flexural Strength	A118.6 Section 4.7	> 500 psi	990 psi (69.6 kg/cm sq.)

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product can contribute towards LEED® v3 certification:

- Up to 2 points towards MR Credit 5, Regional Materials
- Up to 1 point towards IEQ Credit 4.1, Low-Emitting Materials Adhesives & Sealants

5 Instructions

General Surface Prep

USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.

Tile or stone must be firmly bonded to a sound substrate, and setting material must be cured a minimum 24-48 hours before cement grout is applied, unless rapid-setting mortars are used. See the corresponding data sheet for the bonding mortars used in your application. Remove spacers and ensure that the grout joints are uniform in depth and width and free of loose debris, contaminants and excess mortar. Use <u>TileLab® SurfaceGard® Sealer</u> to seal tile or stone subject to staining or when using a grout that contrasts with the color of the tile.

Mixing Ratios

- Mix 2 qt (1.89 L) clean water to 25 lb (11.34 kg) grout.
- Mix 1 pt (.473 mL) clean water to 7 lb (3.17 kg) grout.
- For 1 lb grout, see package for fill line indicator.

Mixing Procedures

When installing more than 1 container of grout at a time, blend dry powders prior to mixing with water. Mix with a trowel or low speed mixer (less than 300 rpm) to achieve a smooth, lump-free consistency. Let the mixture stand (slake) for 10 minutes, and then remix and use. Periodically remix to keep the mixture workable, but do not add water, which can weaken the grout, cause color variation and possible cause shrinkage, cracks and pinholes. Discard grout when it becomes too stiff to work.

Application of Product

Installation must conform to ANSI A108.10. Lightly dampen absorptive, highly porous tile with clean, cool water, but leave no standing water in the joints. Holding a rubber grout float at a 45° angle, completely fill the joints. Holding the edge of the float at a 90° angle, remove excess grout. At 70° F, do not spread more grout than can be cleaned within 30 minutes of the grout firming and use as little water as possible for grout clean-up (higher temperatures may shorten this time frame). Using a damp, small pore grout sponge in a circular motion, smooth and level joints and remove excess grout. Change the water and rinse the sponge frequently. Haze can be removed after 3 hours with cheesecloth or wrung-out sponge. If haze persists, the installation can be washed after three days with Aqua Mix NanoScrub or after ten days with Aqua Mix® Sulfamic Acid Crystals or TileLab® Sulfamic Acid Cleaner. Perform a test in an inconspicuous area prior to complete application. Movement joints are required for perimeters and other changes of plane in all installations. See TCNA Detail EJ171 for recommendations.

Curing of Product

Curing time is affected by ambient and surface temperatures and humidity. For exterior applications, it is recommended that the installation is misted periodically with clean, cool water for 3 days.

Sealing of Grout

Use a pH-neutral, water-based, penetrating sealer such as <u>AquaMix</u> <u>Sealer's Choice Gold</u> or <u>TileLab Surface Guard</u>.

Cleaning of equipment

Clean tools and hands with water before the material dries.

Health Precautions

This product contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Use with adequate ventilation; do not breathe dust and wear a NIOSH approved respirator. If ingested, do not induce vomiting; call a physician immediately.



Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.



6 Availability & Cost

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
USA	#9 Natural Gray	PBG097-4	7 lb (3.17 kg)	Box	PBG0925	25 lb (11.34 kg)	Bag
USA	#10 Antique White	PBG107-4	7 lb (3.17 kg)	Box	PBG1025	25 lb (11.34 kg)	Bag
USA	#11 Snow White	PBG117-4	7 lb (3.17 kg)	Box	PBG1125	25 lb (11.34 kg)	Bag
USA	#19 Pewter	PBG197-4	7 lb (3.17 kg)	Box	PBG1925	25 lb (11.34 kg)	Bag
USA	#22 Sahara Tan	PBG227-4	7 lb (3.17 kg)	Box	PBG2225	25 lb (11.34 kg)	Bag
USA	#45 Summer Wheat	PBG457-4	7 lb (3.17 kg)	Box	PBG4525	25 lb (11.34 kg)	Bag
USA	#50 Nutmeg	PBG507-4	7 lb (3.17 kg)	Box	PBG5025	25 lb (11.34 kg)	Bag
USA	#52 Tobacco Brown	PBG527-4	7 lb (3.17 kg)	Box	PBG5225	25 lb (11.34 kg)	Bag
USA	#59 Saddle Brown	PBG597-4	7 lb (3.17 kg)	Box	PBG5925	25 lb (11.34 kg)	Bag
USA	#60 Charcoal	PBG607-4	7 lb (3.17 kg)	Box	PBG6025	25 lb (11.34 kg)	Bag
USA	#95 Sable Brown	PBG957-4	7 lb (3.17 kg)	Box	PBG9525	25 lb (11.34 kg)	Bag
USA	#101 Quartz	PBG1017-4	7 lb (3.17 kg)	Box	PBG10125	25 lb (11.34 kg)	Bag
USA	#105 Earth	PBG1057-4	7 lb (3.17 kg)	Box	PBG10525	25 lb (11.34 kg)	Bag
USA	#115 Platinum	PBG1157-4	7 lb (3.17 kg)	Box	PBG11525	25 lb (11.34 kg)	Bag
USA	#122 Linen	PBG1227-4	7 lb (3.17 kg)	Box	PBG12225	25 lb (11.34 kg)	Bag
USA	#135 Mushroom	PBG1357-4	7 lb (3.17 kg)	Box	PBG13525	25 lb (11.34 kg)	Bag
USA	#145 Light Smoke	PBG1457-4	7 lb (3.17 kg)	Box	PBG14525	25 lb (11.34 kg)	Bag
USA	#156 Fawn	PBG1567-4	7 lb (3.17 kg)	Box	PBG15625	25 lb (11.34 kg)	Bag
USA	#165 Delorean Gray	PBG1657-4	7 lb (3.17 kg)	Box	PBG16525	25 lb (11.34 kg)	Bag
USA	#172 Urban Putty	PBG1727-4	7 lb (3.17 kg)	Box	PBG17225	25 lb (11.34 kg)	Bag
USA	#180 Sandstone	PBG1807-4	7 lb (3.17 kg)	Box	PBG18025	25 lb (11.34 kg)	Bag
USA	#183 Chateau	PBG1837-4	7 lb (3.17 kg)	Box	PBG18325	25 lb (11.34 kg)	Bag
USA	#185 New Taupe	PBG1857-4	7 lb (3.17 kg)	Box	PBG18525	25 lb (11.34 kg)	Bag
USA	#186 Khaki	PBG1867-4	7 lb (3.17 kg)	Box	PBG18625	25 lb (11.34 kg)	Bag
USA	#333 Alabaster	PBG3337-4	7 lb (3.17 kg)	Box	PBG33325	25 lb (11.34 kg)	Bag
USA	#335 Winter Gray	PBG3357-4	7 lb (3.17 kg)	Box	PBG33525	25 lb (11.34 kg)	Bag
USA	#370 Dove Gray	PBG3707-4	7 lb (3.17 kg)	Box	PBG37025	25 lb (11.34 kg)	Bag
USA	#380 Haystack	PBG3807-4	7 lb (3.17 kg)	Box	PBG38025	25 lb (11.34 kg)	Bag
USA	#381 Bright White	PBG3817-4	7 lb (3.17 kg)	Box	PBG38125	25 lb (11.34 kg)	Bag
USA	#382 Bone	PBG3827-4	7 lb (3.17 kg)	Box	PBG38225	25 lb (11.34 kg)	Bag
USA	#386 Oyster Gray	PBG3867-4	7 lb (3.17 kg)	Box	PBG38625	25 lb (11.34 kg)	Bag
USA	#540 Truffle	PBG5407-4	7 lb (3.17 kg)	Box	PBG54025	25 lb (11.34 kg)	Bag
USA	#541 Walnut	PBG5417-4	7 lb (3.17 kg)	Box	PBG54125	25 lb (11.34 kg)	Bag
USA	#542 Graystone	PBG5427-4	7 lb (3.17 kg)	Box	PBG54225	25 lb (11.34 kg)	Bag
USA	#543 Driftwood	PBG5437-4	7 lb (3.17 kg)	Box	PBG54325	25 lb (11.34 kg)	Bag
USA	#544 Rolling Fog	PBG5447-4	7 lb (3.17 kg)	Box	PBG54425	25 lb (11.34 kg)	Bag
USA	#545 Bleached Wood	PBG5457-4	7 lb (3.17 kg)	Box	PBG54525	25 lb (11.34 kg)	Bag
USA	#546 Cape Gray	PBG5467-4	7 lb (3.17 kg)	Box	PBG54625	25 lb (11.34 kg)	Bag
USA	#547 Ice Blue	PBG5477-4	7 lb (3.17 kg)	Box	PBG54725	25 lb (11.34 kg)	Bag
USA	#548 Surf Green	PBG5487-4	7 lb (3.17 kg)	Box	PBG54825	25 lb (11.34 kg)	Bag
USA - Special Order	All 40 colors				PBGXXX50	50 lb (22.68 kg)	Bag



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Canada	#50 Nutmeg	CPBG507-4	7 lb (3.17 kg)	Box	CPBG5025	25 lb (11.34 kg)	Bag
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Canada	#548 Surf Green	CPBG5487-4	7 lb (3.17 kg)	Box	CPBG54825	25 lb (11.34 kg)	Bag

Location	Grout Color	Item Code	Size	Package
USA	#9 Natural Gray	PBG-091-4	1 lb	Tub
USA	#122 Linen	PBG-1221-4	1 lb	Tub
USA	#380 Haystack	PBG-3801-4	1 lb	Tub
USA	#382 Bone	PBG-3821-4	1 lb	Tub

The following colors are discontinued as of March 2015: #92 Admiral Blue, #96 Quarry Red 199 Burnt Clay, #127 Antique Linen, #168 Slate Gray, #190 Bay Leaf, #301 Arctic Ice, #305 Onyx Green, #311 Moss, #312 Bonsai, #365 Can CUSTON



7 Product Warranty

Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's® sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's® printed instructions. Custom® makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another. This warranty is not transferrable.

8 Product Maintenance

Clean with a pH-neutral cleaner such as <u>Aqua Mix AquaKleen</u>, <u>Aqua</u> <u>Mix Concentrated Tile & Stone Cleaner</u> or <u>TileLab Grout & Tile Cleaner</u>.

9 Technical Services Information

For technical assistance, contact Custom® technical services at 800-272-8786 or visit <u>custombuildingproducts.com</u>.

10 Filing System

Additional product information is available from the manufacturer upon request.

Related Products

Polyblend® Ceramic Tile Caulk

Commercial 100% Silicone Caulk

TileLab® SurfaceGard® Sealer

StainBlocker for Grout

Polyblend® Non-Sanded Grout



Coverage

For 25 lb. bag of Polyblend in ft² (m²) per bag

Tile Size	Joint Width						
Width x Length x Thickness	1/8" (3 mm)	3/16" (4.8 mm)	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (13 mm)		
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	54 ft² (5 m²)	40 ft² (3.7 m²)	33 ft² (3.1 m²)	27 ft² (2.5 m²)	24 ft² (2.2 m²)		
2" x 2" x 1/4" (5 x 5 x .64 cm)	96 ft² (8.9 m²)	68 ft² (6.3 m²)	54 ft² (5.0 m²)	40 ft² (3.7 m²)	33 ft² (3.1 m²)		
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	138 ft² (12.9 m²)	96 ft² (8.9 m²)	74 ft² (7 m²)	54 ft² (5 m²)	43 ft² (4 m²)		
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	192 ft² (17.8 m²)	131 ft² (12.2 m²)	101 ft² (9.4 m²)	71 ft² (6.6 m²)	56 ft² (5.2 m²)		
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	266 ft² (24.7 m²)	181 ft² (16.8 m²)	139 ft² 12.9 m²)	96 ft² (8.9 m²)	75 ft² (7.0 m²)		
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)	83 ft² (7.7 m²)	64 ft² (6 m²)		
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	348 ft² (32.3 m²)	234 ft² (21.7 m²)	177 ft² (16.5 m²)	121 ft² (11.2 m²)	92 ft² (8.6 m²)		
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	462 ft² (42.8 m²)	310 ft² (28.8 m²)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)		
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	518 ft² (48.1 m²)	348 ft² (32.3 m²)	262 ft² (24.4 m²)	177 ft² (16.5 m²)	135 ft² (12.5 m²)		
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	574 ft² (53.4 m²)	385 ft² (35.8 m²)	291 ft² (27 m²)	196 ft² (18.2 m²)	149 ft² (13.8 m²)		
24" x 24" x 3/8" (61 x 61 x 1 cm)	688 ft² (63.9 m²)	461 ft² (42.8 m²)	348 ft² (32.3 m²)	234 ft² (21.7 m²)	177 ft² (16.5 m²)		
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	279 ft² (26 m²)	189 ft² (17.5 m²)	143 ft² (13.3 m²)	98 ft² (9.1 m²)	75 ft² (7 m²)		
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	461 ft² (42.8 m²)	310 ft² (28.8 m²)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)		
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	299 ft² (27.8 m²)	202 ft² (18.7 m²)	153 ft² (14.2 m²)	104 ft² (9.7 m²)	80 ft² (7.4 m²)		
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	416 ft² (38.6 m²)	279 ft² (26 m²)	211 ft² (19.6 m²)	143 ft² (13.3 m²)	109 ft² (10.2 m²)		
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	552 ft² (51.3 m²)	370 ft² (34.4 m²)	279 ft² (26 m²)	189 ft² (17.5 m²)	143 ft² (13.3 m²)		

For 7 lb bag of Polyblend (sq ft/sq m per bag)

Tile Size Width x Length x Thickness	Joint Width						
	1/8" (3 mm)	3/16" (4.8 mm)	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (13 mm)		
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	15 ft² (1.4 m²)	11 ft² (1 m²)	9 ft² (.9 m²)	8 ft² (.7 m²)	7 ft² (.6 m²)		
2" x 2" x 1/4" (5 x 5 x .64 cm)	27 ft² (2.5 m²)	19 ft² (1.8 m²)	15 ft² (1.4 m²)	11 ft² (1 m²)	9 ft² (.9 m²)		
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	39 ft² (3.6 m²)	27 ft² (2.5 m²)	21 ft² (1.9 m²)	15 ft² (1.4 m²)	12 ft² (1.1 m²)		
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	54 ft² (5 m²)	37 ft² (3.4 m²)	28 ft² (2.6 m²)	20 ft² (1.9 m²)	16 ft² (1.5 m²)		
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	74 ft² (6.9 m²)	51 ft² (4.7 m²)	39 ft² (3.6 m²)	27 ft² (2.5 m²)	21 ft² (1.9 m²)		
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)	23 ft² (2.2 m²)	18 ft² (1.7 m²)		
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	97 ft² (9 m²)	66 ft² (6.1 m²)	50 ft² (4.6 m²)	34 ft² (3.1 m²)	26 ft² (2.4 m²)		
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	129 ft² (12 m²)	87 ft² (8.1 m²)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)		
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	145 ft² (13.5 m²)	97 ft² (9 m²)	73 ft² (6.8 m²)	50 ft² (4.6 m²)	38 ft² (3.5 m²)		
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	161 ft² (14.9 m²)	108 ft² (10 m²)	81 ft² (7.6 m²)	55 ft² (5.1 m²)	42 ft² (3.9 m²)		
24" x 24" x 3/8" (61 x 61 x 1 cm)	193 ft² (17.9 m²)	129 ft² (12 m²)	97 ft² (9 m²)	66 ft² (6.1 m²)	50 ft² (4.6 m²)		
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	78 ft² (7.3 m²)	53 ft² (4.9 m²)	40 ft² (3.7 m²)	27 ft² (2.5 m²)	21 ft² (2.0 m²)		
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	129 ft² (12 m²)	87 ft² (8.1 m²)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)		
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	84 ft² (7.8 m²)	56 ft² (5.2 m²)	43 ft² (4 m²)	29 ft² (2.7 m²)	22 ft² (2.1 m²)		
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	116 ft² (10.8 m²)	78 ft² (7.3 m²)	59 ft² (5.5 m²)	40 ft² (3.7 m²)	31 ft² (2.8 m²)		
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	155 ft² (14.4 m²)	104 ft² (9.6 m²)	78 ft² (7.3 m²)	53 ft² (4.9 m²)	40 ft² (3.7 m²)		

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more tile and joint sizes, use the <u>Material</u> <u>Calculator</u> at CustomBuildingProducts.com or contact CUSTOM Technical Services at <u>800-282-8786</u>.

