

Polyblend® Plus Non-Sanded Grout

1 Product Name

Polyblend® Plus Non-Sanded Grout

2 Manufacturer

Custom Building Products
 Technical Services
 10400 Pioneer Boulevard, Unit 3
 Santa Fe Springs, CA 90670
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3 Product Description

A polymer-modified, cement-based non-sanded grout designed for highly glazed or polished tile, marble and natural stone that would be scratched by sanded grouts. This durable, non-shrinking grout accommodates joints up to 1/8" (3 mm) and can be used 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 up to 1/8" (3.2 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
- Impervious porcelain and glass tile
- Cement-based precast terrazzo
- Natural stone tile

Composition of Product

Polyblend® Non-Sanded Grout is a dry, Portland cement based grout, inorganic aggregates and chemicals.

Benefits of Product in the Installation

- Hard, dense grout joints
- Resists shrinking, cracking, powdering and wear
- Excellent for highly-glazed ceramic tile and highly-polished marble or natural stone



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).
- 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 [Aqua Mix® Grout Release](#) or [TileLab® SurfaceGard® Sealer](#) 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 [CEG-IG 100% Solids Epoxy Grout](#).
- 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 [Commercial 100% Silicone Caulk](#) or [Polyblend® Ceramic Tile Caulk](#).

Packaging

Available in 3 sizes:

- 1 lb (.45 kg) tub
- 10 lb (4.5 kg) box
- 25 lb (11.34 kg) bag

Available in 48 standard colors; color matching is available. 1 lb grout is available in 2 colors.

4 Technical Data

Applicable Standards

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



Polyblend® Plus Non-Sanded Grout

- 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

Approvals

Polyblend® Non-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	< 0.30%	<0.10%
Water Absorption	A118.6 Section 4.4	< 18%	<16%
28 Day Compressive Strength	A118.6 Section 4.5	> 3000 psi	3300 psi (232 kg/cm sq.)
Tensile Strength	A118.6 Section 4.6	> 250 psi	525 psi (36.9 kg/cm sq.)
Flexural Strength	A118.6 Section 4.7	>500 psi	>790 psi (>55.6 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 [TileLab® SurfaceGard® Sealer](#) to seal tile or stone subject to staining or when using a grout that contrasts with the color of the tile.

Mixing Ratios

- Mix 3 pt (1.4 L) clean water to 10 lb (4.5 kg) grout.
- Mix 7.5 pt (3.5 L) clean water to 25 lb (11.34 kg) grout.
- For 1 lb (.45 kg) 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 sealer such as [TileLab® SurfaceGuard®](#) or [Aqua Mix® Sealer's Choice® Gold](#).

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.



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6 Availability & Cost

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
USA	#9 Natural Gray	PBG0910	10 lb (4.5 kg)	Box	NSG0925*	25 lb (11.34 kg)	Bag
USA	#10 Antique White	PBG1010	10 lb (4.5 kg)	Box	NSG1025**	25 lb (11.34 kg)	Bag
USA	#11 Snow White	PBG1110	10 lb (4.5 kg)	Box	NSG1125**	25 lb (11.34 kg)	Bag
USA	#19 Pewter	PBG1910	10 lb (4.5 kg)	Box	NSG1925*	25 lb (11.34 kg)	Bag
USA	#22 Sahara Tan	PBG2210	10 lb (4.5 kg)	Box	NSG2225*	25 lb (11.34 kg)	Bag
USA	#45 Summer Wheat	PBG4510	10 lb (4.5 kg)	Box	NSG4525*	25 lb (11.34 kg)	Bag
USA	#50 Nutmeg	PBG5010	10 lb (4.5 kg)	Box	NSG5025*	25 lb (11.34 kg)	Bag
USA	#52 Tobacco Brown	PBG5210	10 lb (4.5 kg)	Box	NSG5225*	25 lb (11.34 kg)	Bag
USA	#59 Saddle Brown	PBG5910	10 lb (4.5 kg)	Box	NSG5925*	25 lb (11.34 kg)	Bag
USA	#60 Charcoal	PBG6010	10 lb (4.5 kg)	Box	NSG6025*	25 lb (11.34 kg)	Bag
USA	#95 Sable Brown	PBG9510	10 lb (4.5 kg)	Box	NSG9525*	25 lb (11.34 kg)	Bag
USA	#101 Quartz	PBG10110	10 lb (4.5 kg)	Box	NSG10125*	25 lb (11.34 kg)	Bag
USA	#105 Earth	PBG10510	10 lb (4.5 kg)	Box	NSG10525*	25 lb (11.34 kg)	Bag
USA	#115 Platinum	PBG11510	10 lb (4.5 kg)	Box	NSG11525*	25 lb (11.34 kg)	Bag
USA	#122 Linen	PBG12210	10 lb (4.5 kg)	Box	NSG12225***	25 lb (11.34 kg)	Bag
USA	#135 Mushroom	PBG13510	10 lb (4.5 kg)	Box	NSG13525*	25 lb (11.34 kg)	Bag
USA	#145 Light Smoke	PBG14510	10 lb (4.5 kg)	Box	NSG14525*	25 lb (11.34 kg)	Bag
USA	#156 Fawn	PBG15610	10 lb (4.5 kg)	Box	NSG15625*	25 lb (11.34 kg)	Bag
USA	#165 Delorean Gray	PBG16510	10 lb (4.5 kg)	Box	NSG16525***	25 lb (11.34 kg)	Bag
USA	#172 Urban Putty	PBG17210	10 lb (4.5 kg)	Box	NSG17225*	25 lb (11.34 kg)	Bag
USA	#180 Sandstone	PBG18010	10 lb (4.5 kg)	Box	NSG18025*	25 lb (11.34 kg)	Bag
USA	#183 Chateau	PBG18310	10 lb (4.5 kg)	Box	NSG18325*	25 lb (11.34 kg)	Bag
USA	#185 New Taupe	PBG18510	10 lb (4.5 kg)	Box	NSG18525*	25 lb (11.34 kg)	Bag
USA	#186 Khaki	PBG18610	10 lb (4.5 kg)	Box	NSG18625*	25 lb (11.34 kg)	Bag
USA	#333 Alabaster	PBG33310	10 lb (4.5 kg)	Box	NSG33325*	25 lb (11.34 kg)	Bag
USA	#335 Winter Gray	PBG33510	10 lb (4.5 kg)	Box	NSG33525***	25 lb (11.34 kg)	Bag
USA	#370 Dove Gray	PBG37010	10 lb (4.5 kg)	Box	NSG37025*	25 lb (11.34 kg)	Bag
USA	#380 Haystack	PBG38010	10 lb (4.5 kg)	Box	NSG38025***	25 lb (11.34 kg)	Bag
USA	#381 Bright White	PBG38110	10 lb (4.5 kg)	Box	NSG38125**	25 lb (11.34 kg)	Bag
USA	#382 Bone	PBG38210	10 lb (4.5 kg)	Box	NSG38225**	25 lb (11.34 kg)	Bag
USA	#386 Oyster Gray	PBG38610	10 lb (4.5 kg)	Box	NSG38625*	25 lb (11.34 kg)	Bag
USA	#540 Truffle	PBG54010	10 lb (4.5 kg)	Box	NSG54025*	25 lb (11.34 kg)	Bag
USA	#541 Walnut	PBG54110	10 lb (4.5 kg)	Box	NSG54125*	25 lb (11.34 kg)	Bag
USA	#542 Graystone	PBG54210	10 lb (4.5 kg)	Box	NSG54225*	25 lb (11.34 kg)	Bag
USA	#543 Driftwood	PBG54310	10 lb (4.5 kg)	Box	NSG54325*	25 lb (11.34 kg)	Bag
USA	#544 Rolling Fog	PBG54410	10 lb (4.5 kg)	Box	NSG54425*	25 lb (11.34 kg)	Bag
USA	#545 Bleached Wood	PBG54510	10 lb (4.5 kg)	Box	PBG54525*	25 lb (11.34 kg)	Bag
USA	#546 Cape Gray	PBG54610	8 lb (3.17 kg)	Box	NSG54625*	26 lb (11.34 kg)	Bag
USA	#547 Ice Blue	PBG54710	9 lb (3.17 kg)	Box	NSG54725*	27 lb (11.34 kg)	Bag
USA	#548 Surf Green	PBG54810	10 lb (3.17 kg)	Box	NSG54825*	28 lb (11.34 kg)	Bag



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Canada	#9 Natural Gray	CPBG0910N	10 lb (4.5 kg)	Box	CNSG0925N*	25 lb (11.34 kg)	Bag
Canada	#10 Antique White	CPBG1010N	10 lb (4.5 kg)	Box	CNSG1025N*	25 lb (11.34 kg)	Bag
Canada	#11 Snow White	CPBG1110N	10 lb (4.5 kg)	Box	CNSG1125N*	25 lb (11.34 kg)	Bag
Canada	#19 Pewter	CPBG1910N	10 lb (4.5 kg)	Box	CNSG1925N*	25 lb (11.34 kg)	Bag
Canada	#22 Sahara Tan	CPBG2210N	10 lb (4.5 kg)	Box	CNSG2225N*	25 lb (11.34 kg)	Bag
Canada	#45 Summer Wheat	CPBG4510N	10 lb (4.5 kg)	Box	CNSG4525N*	25 lb (11.34 kg)	Bag
Canada	#50 Nutmeg	CPBG5010N	10 lb (4.5 kg)	Box	CNSG5025N*	25 lb (11.34 kg)	Bag
Canada	#52 Tobacco Brown	CPBG5210N	10 lb (4.5 kg)	Box	CNSG5225N*	25 lb (11.34 kg)	Bag
Canada	#59 Saddle Brown	CPBG5910N	10 lb (4.5 kg)	Box	CNSG5925N*	25 lb (11.34 kg)	Bag
Canada	#60 Charcoal	CPBG6010N	10 lb (4.5 kg)	Box	CNSG6025N*	25 lb (11.34 kg)	Bag
Canada	#95 Sable Brown	CPBG9510N	10 lb (4.5 kg)	Box	CNSG9525N*	25 lb (11.34 kg)	Bag
Canada	#101 Quartz	CPBG10110N	10 lb (4.5 kg)	Box	CNSG10125N*	25 lb (11.34 kg)	Bag
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Canada	#145 Light Smoke	CPBG14510N	10 lb (4.5 kg)	Box	CNSG14525N*	25 lb (11.34 kg)	Bag
Canada	#156 Fawn	CPBG15610N	10 lb (4.5 kg)	Box	CNSG15625N*	25 lb (11.34 kg)	Bag
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Canada	#180 Sandstone	CPBG18010N	10 lb (4.5 kg)	Box	CNSG18025N*	25 lb (11.34 kg)	Bag
Canada	#183 Chateau	CPBG18310N	10 lb (4.5 kg)	Box	CNSG18325N*	25 lb (11.34 kg)	Bag
Canada	#185 New Taupe	CPBG18510N	10 lb (4.5 kg)	Box	CNSG18525N*	25 lb (11.34 kg)	Bag
Canada	#186 Khaki	CPBG18610N	10 lb (4.5 kg)	Box	CNSG18625N*	25 lb (11.34 kg)	Bag
Canada	#333 Alabaster	CPBG33310N	10 lb (4.5 kg)	Box	CNSG33325N*	25 lb (11.34 kg)	Bag
Canada	#335 Winter Gray	CPBG33510N	10 lb (4.5 kg)	Box	CNSG33525N*	25 lb (11.34 kg)	Bag
Canada	#370 Dove Gray	CPBG37010N	10 lb (4.5 kg)	Box	CNSG37025N*	25 lb (11.34 kg)	Bag
Canada	#380 Haystack	CPBG38010N	10 lb (4.5 kg)	Box	CNSG38025N*	25 lb (11.34 kg)	Bag
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Canada	#541 Walnut	CPBG54110N	10 lb (4.5 kg)	Box	CNSG54125N*	25 lb (11.34 kg)	Bag
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Canada	#548 Surf Green	CPBG54810N	10 lb (3.17 kg)	Box	CNSG54825N*	28 lb (11.34 kg)	Bag

Location	Grout Color	Item Code	Size	Package
USA	#122 Linen	NSG1221-4	1 lb (.45 kg)	Tub
USA	#381 Bright White	NSG3811-4	1 lb (.45 kg)	Tub

* Indicates special order item.

** Available from Georgia, Indiana and New Jersey plants only.

*** Available from Georgia plant only.

The following colors are discontinued as of March 2015: #92 Admiral Blue, #96 Quarry Red Clay, #99 Burnt Clay, #127 Antique Linen, #168 Slate Gray, #190 Bay Leaf, #301 Arctic Ice, #305 Onyx Green, #311 Moss, #312 Bonsai, #365 Canvas, #384 Camel, #390 Rose Beige



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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 [Aqua Mix AquaKleen](#), [Aqua Mix Concentrated Tile & Stone Cleaner](#) or [TileLab Grout & Tile Cleaner](#).

9 Technical Services Information

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

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® Sanded Grout



Polyblend® Plus Non-Sanded Grout

Coverage

For 10 lb. box of Polyblend Non-sanded in ft² (m²) per bag

Tile Size Width x Length x Thickness	Joint Width	
	1/16" (1.63 mm)	1/8" (3 mm)
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	40 ft ² (3.7 m ²)	23 ft ² (2.1 m ²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	76 ft ² (7.1 m ²)	40 ft ² (3.7 m ²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	112 ft ² (10.4 m ²)	58 ft ² (5.4 m ²)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	156 ft ² (14.5 m ²)	80 ft ² (7.5 m ²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	219 ft ² (20.3 m ²)	112 ft ² (10.4 m ²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	194 ft ² (18 m ²)	98 ft ² (9.1 m ²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	289 ft ² (26.8 m ²)	146 ft ² (13.6 m ²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	432 ft ² (40.1 m ²)	217 ft ² (20.2 m ²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	480 ft ² (44.6 m ²)	241 ft ² (22.4 m ²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	575 ft ² (53.4 m ²)	289 ft ² (26.8 m ²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	232 ft ² (15.2 m ²)	117 ft ² (10.9 m ²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	384 ft ² (35.7 m ²)	194 ft ² (18 m ²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	248 ft ² (23 m ²)	126 ft ² (11.7 m ²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	346 ft ² (32.2 m ²)	175 ft ² (16.2 m ²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	461 ft ² (42.8 m ²)	232 ft ² (21.5 m ²)

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more tile and joint sizes, use the [Material Calculator](#) at CustomBuildingProducts.com or contact CUSTOM Technical Services at [800-282-8786](tel:800-282-8786).



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