

Polyblend® Non-Sanded Grout

1 Product Name

Polyblend® Non-Sanded Grout

2 Manufacturer

Custom Building Products
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 Seal Beach, CA 90740-2757
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3 Product Description

A polymer-modified 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.
- Chemicals in salt-based pool filtration systems can cause a reaction with blue, green and red grouts. Contact Technical Services for recommendations.

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)

- 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.



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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

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

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 joint, 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. 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 seven days with [Aqua Mix® Sulfamic Acid Crystals](#) or [TileLab® Sulfamic Acid Cleaner](#). Perform a test in an inconspicuous area prior to complete application.

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 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	Color #	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	#14	White Dove	PBG1410	10 lb (4.5 kg)	Box	NSG1425*	25 lb (11.34 kg)	Bag
USA	#17	Butter Cream	PBG1710	10 lb (4.5 kg)	Box	NSG1725*	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	#35	Chaparral	PBG3510	10 lb (4.5 kg)	Box	NSG3525*	25 lb (11.34 kg)	Bag
USA	#45	Summer Wheat	PBG4510	10 lb (4.5 kg)	Box	NSG3525*	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	#90	Ocean Blue	PBG9010	10 lb (4.5 kg)	Box	NSG9025*	25 lb (11.34 kg)	Bag
USA	#92	Admiral Blue	PBG9210	10 lb (4.5 kg)	Box	NSG9225*	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	#96	Quarry Red Clay	PBG9610	10 lb (4.5 kg)	Box	NSG9625*	25 lb (11.34 kg)	Bag
USA	#99	Burnt Clay	PBG9910	10 lb (4.5 kg)	Box	NSG9925*	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	#127	Antique Linen	PBG12710	10 lb (4.5 kg)	Box	NSG12725*	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	#168	Slate Gray	PBG16810	10 lb (4.5 kg)	Box	NSG16825*	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	#190	Bay Leaf	PBG19010	10 lb (4.5 kg)	Box	NSG19025*	25 lb (11.34 kg)	Bag
USA	#301	Arctic Ice	PBG30110	10 lb (4.5 kg)	Box	NSG30125*	25 lb (11.34 kg)	Bag
USA	#305	Onyx Green	PBG30510	10 lb (4.5 kg)	Box	NSG30525*	25 lb (11.34 kg)	Bag
USA	#311	Moss	PBG31110	10 lb (4.5 kg)	Box	NSG31125*	25 lb (11.34 kg)	Bag
USA	#312	Bonsai	PBG31210	10 lb (4.5 kg)	Box	NSG31225*	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	#365	Canvas	PBG36510	10 lb (4.5 kg)	Box	NSG36525***	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



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Location	Color #	Color	Item Code	Size	Package	Item Code	Size	Package
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	#384	Camel	PBG38410	10 lb (4.5 kg)	Box	NSG38425*	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	#390	Rose Beige	PBG39010	10 lb (4.5 kg)	Box	NSG39025*	25 lb (11.34 kg)	Bag
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	CBPWDG25*	25 lb (11.34 kg)	Bag
Canada	#14	White Dove	CPBG1410N	10 lb (4.5 kg)	Box	CNSG1425N*	25 lb (11.34 kg)	Bag
Canada	#17	Butter Cream	CPBG1710N	10 lb (4.5 kg)	Box	CNSG1725N*	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	#35	Chaparral	CPBG3510N	10 lb (4.5 kg)	Box	CNSG3525N*	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	#90	Ocean Blue	CPBG9010N	10 lb (4.5 kg)	Box	CNSG9025N*	25 lb (11.34 kg)	Bag
Canada	#92	Admiral Blue	CPBG9210N	10 lb (4.5 kg)	Box	CNSG9225N*	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	#96	Quarry Red Clay	CPBG9610N	10 lb (4.5 kg)	Box	CNSG9625N*	25 lb (11.34 kg)	Bag
Canada	#99	Burnt Clay	CPBG9910N	10 lb (4.5 kg)	Box	CNSG9925N*	25 lb (11.34 kg)	Bag
Canada	#101	Quartz	CPBG10110N	10 lb (4.5 kg)	Box	CNSG10125N*	25 lb (11.34 kg)	Bag
Canada	#105	Earth	CPBG10510N	10 lb (4.5 kg)	Box	CNSG10525N*	25 lb (11.34 kg)	Bag
Canada	#115	Platinum	CPBG11510N	10 lb (4.5 kg)	Box	CNSG11525N*	25 lb (11.34 kg)	Bag
Canada	#122	Linen	CPBG12210N	10 lb (4.5 kg)	Box	CNSG12225N*	25 lb (11.34 kg)	Bag
Canada	#127	Antique Linen	CPBG12710N	10 lb (4.5 kg)	Box	CNSG12725N*	25 lb (11.34 kg)	Bag
Canada	#135	Mushroom	CPBG13510N	10 lb (4.5 kg)	Box	CNSG13525N*	25 lb (11.34 kg)	Bag
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
Canada	#165	Delorean Gray	CPBG16510N	10 lb (4.5 kg)	Box	CNSG16525N*	25 lb (11.34 kg)	Bag
Canada	#168	Slate Gray	CPBG16810N	10 lb (4.5 kg)	Box	CNSG16825N*	25 lb (11.34 kg)	Bag
Canada	#172	Urban Putty	CPBG17210N	10 lb (4.5 kg)	Box	CNSG17225N*	25 lb (11.34 kg)	Bag
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	#190	Bay Leaf	CPBG19010N	10 lb (4.5 kg)	Box	CNSG19025N*	25 lb (11.34 kg)	Bag
Canada	#301	Arctic Ice	CPBG30110N	10 lb (4.5 kg)	Box	CNSG30125N*	25 lb (11.34 kg)	Bag
Canada	#305	Onyx Green	CPBG30510N	10 lb (4.5 kg)	Box	CNSG30525N*	25 lb (11.34 kg)	Bag
Canada	#311	Moss	CPBG31110N	10 lb (4.5 kg)	Box	CNSG31125N*	25 lb (11.34 kg)	Bag
Canada	#312	Bonsai	CPBG31210N	10 lb (4.5 kg)	Box	CNSG31225N*	25 lb (11.34 kg)	Bag
Canada	#333	Alabaster	CPBG33310N	10 lb (4.5 kg)	Box	CNSG33325N*	25 lb (11.34 kg)	Bag



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Location	Color #	Color	Item Code	Size	Package	Item Code	Size	Package
Canada	#335	Winter Gray	CPBG33510N	10 lb (4.5 kg)	Box	CNSG33525N*	25 lb (11.34 kg)	Bag
Canada	#365	Canvas	CPBG36510N	10 lb (4.5 kg)	Box	CNSG36525N*	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
Canada	#381	Bright White	CPBG38110N	10 lb (4.5 kg)	Box	CNSG38125N*	25 lb (11.34 kg)	Bag
Canada	#382	Bone	CPBG38210N	10 lb (4.5 kg)	Box	CNSG38225N*	25 lb (11.34 kg)	Bag
Canada	#384	Camel	CPBG38410N	10 lb (4.5 kg)	Box	CNSG38425N*	25 lb (11.34 kg)	Bag
Canada	#386	Oyster Gray	CPBG38610N	10 lb (4.5 kg)	Box	CNSG38625N*	25 lb (11.34 kg)	Bag
Canada	#390	Rose Beige	CPBG39010N	10 lb (4.5 kg)	Box	CNSG39025N*	25 lb (11.34 kg)	Bag

Location	Color #	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.

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 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® Non-Sanded Grout

Coverage

Coverage based on 10 lb (4.5 kg) box.

Tile Size	Joint Width	
	1/16" (3 mm)	1/8" (3 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	44 ft ² (4.1M ²)	20 ft ² (1.9M ²)
2" x 2" x 1/4" (50 x 50 x 6 mm)	85 ft ² (7.9M ²)	40 ft ² (3.7M ²)
3" x 3" x 1/4" (75 x 75 x 6 mm)	126 ft ² (11.7M ²)	60 ft ² (5.6M ²)
4 1/4" x 4 1/4" x 1/4" (108 x 108 x 6 mm)	149 ft ² (13.8M ²)	78 ft ² (7.2M ²)
6" x 6" x 1/4" (150 x 150 x 6 mm)	250 ft ² (23.2M ²)	120 ft ² (11.1M ²)
8" x 8" x 3/8" (200 x 200 x 9.5 mm)	220 ft ² (20.4M ²)	110 ft ² (10.2M ²)
12" x 12" x 3/8" (300 x 300 x 9.5 mm)	331 ft ² (30.1M ²)	171 ft ² (15.9M ²)
16" x 16" x 3/8" (400 x 400 x 9.5 mm)	370 ft ² (34.4M ²)	185 ft ² (17.2M ²)
20" x 20" x 3/8" (500 x 500 x 9.5 mm)	453 ft ² (42.1M ²)	227 ft ² (21.1M ²)
24" x 24" x 3/8" (600 x 600 x 9.5 mm)	659 ft ² (61.2M ²)	330 ft ² (30.7M ²)



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