Polyblend® Non-Sanded Grout

1   Product Name

Polyblend® Non-Sanded Grout

2   Manufacturer

Custom Building Products
Technical Services
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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 us 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 15 standard colors in the US and 18 in Canada; 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® 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%	<0.30%
Water Absorption	A118.6 Section 4.4	< 18%	<18%
28 Day Compressive Strength	A118.6 Section 4.5	> 3000 psi	> 3000 psi
Tensile Strength	A118.6 Section 4.6	> 250 psi	> 250 psi
Flexural Strength	A118.6 Section 4.7	>500 psi	>500 psi

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 or Aqua Mix® Grout Release to seal tile or stone subject to staining or when using a grout that contrasts with the color of the tile.

Mixing Ratios

- Mix 2.9 pt (1.4 L) clean water to 10 lb (4.5 kg) grout.
- Mix 7.25 pt (3.43 L) clean water to 25 lb (11.34 kg) grout.
- For 1 lb (.45 kg) grout, see package for fill line indicator.

For increased stain resistance use StainBlocker for Grout Additive. See datasheet for details.

Mixing Procedures

Dry mix bags of different batches together as they can vary slightly in color. Mix with a trowel or low speed mixer (less than 300 rpm) for approximately 3 minutes to achieve a smooth, lump-free consistency. If needed add: up to 0.2pts (0.1L) of water for each 10 lb. (4.5 kg) powder. Let the mixture stand (slake) for 5 minutes, and then remix and use. Periodically remix grout to keep it workable but do not add water as it can weaken the grout, cause color variation, shrinkage, cracking and pinholes. Discard grout when it becomes too stiff to spread.

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, TileLab® Sulfamic Acid Cleaner or Aqua Mix® Cement Grout Haze Remover. 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.

Exterior applications must be protected from rain, snow and other wet conditions for at least 7 days with temperature above 50° F (10° C). If inclement weather is expected, protect the work area with tenting at least 1 foot (30 cm) above the finished surface to allow air flow. Enclose and protect exterior installations and maintain >50° F (10° C) temperatures for at least 72 hours for proper cure.

Sealing of Grout

If the use of a sealer is desired for extra protection, apply a pH-neutral, water-based, penetrating sealer such as AquaMix Sealer's Choice Gold or TileLab Surface Guard. Cleaning of equipment Clean tools and hands with water before the material dries.

Cleaning of equipment

Clean tools and hands with water before the material dries.

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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	#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	#60 Charcoal	PBG6010	10 lb (4.5 kg)	Box	NSG6025*	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	#165 Delorean Gray	PBG16510	10 lb (4.5 kg)	Box	NSG16525*	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	#544 Rolling Fog	PBG54410	10 lb (4.5 kg)	Box	NSG54425*	25 lb (11.34 kg)	Bag
USA	#640 Arctic White	PBG64010	10 lb (4.5 kg)	Box	NSG64025*	25 lb (11.34 kg)	Bag
USA	#646 Coffee Bean	PBG64610	10 lb (4.5 kg)	Box	NSG64625*	25 lb (11.34 kg)	Bag
USA	#647 Brown Velvet	PBG64710	10 lb (4.5 kg)	Box	NSG64725*	25 lb (11.34 kg)	Bag

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
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	#52 Tobacco Brown	CPBG5210N	10 lb (4.5 kg)	Box	CNSG5225N*	25 lb (11.34 kg)	Bag
Canada	#60 Charcoal	CPBG6010N	10 lb (4.5 kg)	Box	CNSG6025N*	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	#145 Light Smoke	CPBG14510N	10 lb (4.5 kg)	Box	CNSG14525N*	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	#185 New Taupe	CPBG18510N	10 lb (4.5 kg)	Box	CNSG18525N*	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
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	#386 Oyster Gray	CPBG38610N	10 lb (4.5 kg)	Box	CNSG38625N*	25 lb (11.34 kg)	Bag
Canada	#540 Truffle	CPBG54010N	10 lb (4.5 kg)	Box	CNSG54025N*	25 lb (11.34 kg)	Bag

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

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* Indicates special order item
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See our color card for truest color representation when selecting or specifying a grout color. Final installed shade may vary with the tile type, color and porosity as well as jobsite conditions and finishing techniques. For best results, perform a test on a small, inconspicuous area or create a sample board prior to installation.

7 Product Warranty

Obtain the applicable **LIMITED PRODUCT WARRANTY** at www.custombuildingproducts.com/product-warranty or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of Custom Building Products, Inc. © 2017 Quikrete International, Inc.

8 Product Maintenance

Clean with a pH-neutral cleaner such as 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

Ceramic Tile Caulk

Commercial 100% Silicone Sealant

TileLab® SurfaceGard® Sealer

StainBlocker for Grout

Polyblend® Sanded Grout

Polyblend® Non-Sanded Grout

Coverage

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

Tile Size	Joint Width	
Width x Length x Thickness	**1/16" (1.63 mm)**	**1/8" (3 mm)**
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	40 ft² (3.7 m²)	23 ft² (2.1 m²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	76 ft² (7.1 m²)	40 ft² (3.7 m²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	112 ft² (10.4 m²)	58 ft² (5.4 m²)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	156 ft² (14.5 m²)	80 ft² (7.5 m²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	219 ft² (20.3 m²)	112 ft² (10.4 m²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	194 ft² (18 m²)	98 ft² (9.1 m²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	289 ft² (26.8 m²)	146 ft² (13.6 m²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	432 ft² (40.1 m²)	217 ft² (20.2 m²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	480 ft² (44.6 m²)	241 ft² (22.4 m²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	575 ft² (53.4 m²)	289 ft² (26.8 m²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	232 ft² (15.2 m²)	117 ft² (10.9 m²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	384 ft² (35.7 m²)	194 ft² (18 m²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	248 ft² (23 m²)	126 ft² (11.7 m²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	346 ft² (32.2 m²)	175 ft² (16.2 m²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	461 ft² (42.8 m²)	232 ft² (21.5 m²)

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.

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