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
Customer Support: 800-272-8786
Technical Services: 800-282-8786
Fax: 800- 200-7765
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3. Product Description

Polyblend Plus has all of the great features of original Polyblend, plus some new value-added enhancements to improve performance, finished color, and color consistency. It is an ANSI A118.6 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

- Brighter, more vivid finished color
- Enhanced color consistency
- Better resistance to efflorescence
- Easy to use - Just mix with water
- Polymer fortified for hard, durable, professional results

Uses

- Use to fill joint widths up to 1/8"
- 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)

Composition of Product

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

Benefits of Product in the Installation

- Hard, durable 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 and climatic conditions, application and cleaning techniques. Variation can be minimized by following directions and using as little water as possible for cleanup.
- A CUSTOM grout color card is truest representation of the grout formula. Refer to the latest CUSTOM grout color card to choose a color. Perform a mockup to determine suitability.Various lighting types and conditions will affect the final grout and tile colors' appearance.
- 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 Sealant or Ceramic Tile Caulk.

Packaging

Available in 2 sizes:

- 10 lb (4.5 kg) box
- 25 lb (11.34 kg) bag

Available in 40 standard colors; color matching is available.

4. Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.10, 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

Technical Chart

Property	Test Method	Requirement	Typical Results
Pot Life	A118.6		1-2 hours
Shrinkage	Section 4.3	< 0.30%	< 0.30%
Water Absorption	Section 4.4	< 18%	< 18%
1 Day Compressive Strength	Section 4.5	> 500 psi (35.2 kg/cm sq.)	> 500 psi (35.2 kg/cm sq.)

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28 Day Compressive Strength	Section 4.5	> 3000 psi (210.9 kg/cm sq.)	> 3000 psi (210.9 kg/cm sq.)
Tensile Strength	Section 4.6	> 250 psi (17.6 kg/cm sq.)	>250 psi (17.6 kg/cm sq.)
Flexural Strength	Section 4.7	>500 psi (35.2 kg/cm sq.)	>500 psi (35.2 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, LowEmittingLow 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 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 penetrating sealer such as AquaMix® Sealer's Choice Gold or AquaMix Ultra-Solv® 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

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	PBPG0910	10 lb (4.5 kg)	Box	NSPG0925*	25 lb (11.34 kg)	Bag
USA	#10 Antique White	PBPG1010	10 lb (4.5 kg)	Box	NSPG1025*	25 lb (11.34 kg)	Bag
USA	#11 Snow White	PBPG1110	10 lb (4.5 kg)	Box	NSPG1125*	25 lb (11.34 kg)	Bag
USA	#19 Pewter	PBPG1910	10 lb (4.5 kg)	Box	NSPG1925*	25 lb (11.34 kg)	Bag
USA	#52 Tobacco Brown	PBPG5210	10 lb (4.5 kg)	Box	NSPG5225*	25 lb (11.34 kg)	Bag
USA	#59 Saddle Brown	PBPG5910	10 lb (4.5 kg)	Box	NSPG5925*	25 lb (11.34 kg)	Bag
USA	#60 Charcoal	PBPG6010	10 lb (4.5 kg)	Box	NSPG6025*	25 lb (11.34 kg)	Bag
USA	#95 Sable Brown	PBPG9510	10 lb (4.5 kg)	Box	NSPG9525*	25 lb (11.34 kg)	Bag
USA	#105 Earth	PBPG10510	10 lb (4.5 kg)	Box	NSPG10525*	25 lb (11.34 kg)	Bag
USA	#115 Platinum	PBPG11510	10 lb (4.5 kg)	Box	NSPG11525*	25 lb (11.34 kg)	Bag
USA	#122 Linen	PBPG12210	10 lb (4.5 kg)	Box	NSPG12225*	25 lb (11.34 kg)	Bag
USA	#135 Mushroom	PBPG13510	10 lb (4.5 kg)	Box	NSPG13525*	25 lb (11.34 kg)	Bag
USA	#145 Light Smoke	PBPG14510	10 lb (4.5 kg)	Box	NSPG14525*	25 lb (11.34 kg)	Bag
USA	#165 Delorean Gray	PBPG16510	10 lb (4.5 kg)	Box	NSPG16525*	25 lb (11.34 kg)	Bag

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USA	#172 Urban Putty	PBPG17210	10 lb (4.5 kg)	Box	NSPG17225*	25 lb (11.34 kg)	Bag
USA	#183 Chateau	PBPG18310	10 lb (4.5 kg)	Box	NSPG18325*	25 lb (11.34 kg)	Bag
USA	#185 New Taupe	PBPG18510	10 lb (4.5 kg)	Box	NSPG18525*	25 lb (11.34 kg)	Bag
USA	#186 Khaki	PBPG18610	10 lb (4.5 kg)	Box	NSPG18625*	25 lb (11.34 kg)	Bag
USA	#333 Alabaster	PBPG33310	10 lb (4.5 kg)	Box	NSPG33325*	25 lb (11.34 kg)	Bag
USA	#335 Winter Gray	PBPG33510	10 lb (4.5 kg)	Box	NSPG33525*	25 lb (11.34 kg)	Bag
USA	#370 Dove Gray	PBPG37010	10 lb (4.5 kg)	Box	NSPG37025*	25 lb (11.34 kg)	Bag
USA	#380 Haystack	PBPG38010	10 lb (4.5 kg)	Box	NSPG38025*	25 lb (11.34 kg)	Bag
USA	#381 Bright White	PBPG38110	10 lb (4.5 kg)	Box	NSPG38125*	25 lb (11.34 kg)	Bag
USA	#382 Bone	PBPG38210	10 lb (4.5 kg)	Box	NSPG38225*	25 lb (11.34 kg)	Bag

USA	#386 Oyster Gray	PBPG38610	10 lb (4.5 kg)	Box	NSPG38625*	25 lb (11.34 kg)	Bag
USA	#540 Truffle	PBPG54010	10 lb (4.5 kg)	Box	NSPG54025*	25 lb (11.34 kg)	Bag
USA	#541 Walnut	PBPG54110	10 lb (4.5 kg)	Box	NSPG54125*	25 lb (11.34 kg)	Bag
USA	#542 Graystone	PBPG54210	10 lb (4.5 kg)	Box	NSPG54225*	25 lb (11.34 kg)	Bag
USA	#543 Driftwood	PBPG54310	10 lb (4.5 kg)	Box	NSPG54325*	25 lb (11.34 kg)	Bag
USA	#544 Rolling Fog	PBPG54410	10 lb (4.5 kg)	Box	NSPG54425*	25 lb (11.34 kg)	Bag
USA	#545 Bleached Wood	PBPG54510	10 lb (4.5 kg)	Box	NSPG54525*	25 lb (11.34 kg)	Bag
USA	#546 Cape Gray	PBPG54610	10 lb (3.17 kg)	Box	NSPG54625*	25 lb (11.34 kg)	Bag
USA	#640 Arctic White	PBPG64010	10 lb (4.5 kg)	Box	NSPG64025*	25 lb (11.34 kg)	Bag
USA	#641 Cool White	PBPG64110	10 lb (4.5 kg)	Box	NSPG64125*	25 lb (11.34 kg)	Bag
USA	#642 Ash	PBPG64210	10 lb (4.5kg)	Box	NSPG64225*	25 lb (11.34 kg)	Bag
USA	#643 Warm Gray	PBPG64310	10 lb (4.5 kg)	Box	NSPG64325*	25 lb (11.34 kg)	Bag
USA	#644 Shadow	PBPG64410	10 lb (4.5 kg)	Box	NSPG64425*	25 lb (11.34 kg)	Bag
USA	#645 Steel Blue	PBPG64510	10 lb (4.5 kg)	Box	NSPG64525*	25 lb (11.34 kg)	Bag
USA	#646 Coffee Bean	PBPG64610	10 lb (4.5 kg)	Box	NSPG64625*	25 lb (11.34 kg)	Bag
USA	#647 Brown Velvet	PBPG64710	10 lb (4.5 kg)	Box	NSPG64725*	25 lb (11.34 kg)	Bag

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
Canada	#9 Natural Gray	CPBPG0910N	10 lb (4.5 kg)	Box	CPBPG0925N*	25 lb (11.34 kg)	Bag
Canada	#10 Antique White	CPBPG1010N	10 lb (4.5 kg)	Box	CPBPG1025N*	25 lb (11.34 kg)	Bag
Canada	#11 Snow White	CPBPG1110N	10 lb (4.5 kg)	Box	CPBPG1125N*	25 lb (11.34 kg)	Bag
Canada	#19 Pewter	CPBPG1910N	10 lb (4.5 kg)	Box	CPBPG1925N*	25 lb (11.34 kg)	Bag
Canada	#52 Tobacco Brown	CPBPG5210N	10 lb (4.5 kg)	Box	CPBPG5225N*	25 lb (11.34 kg)	Bag
Canada	#59 Saddle Brown	CPBPG5910N	10 lb (4.5 kg)	Box	CPBPG5925N*	25 lb (11.34 kg)	Bag
Canada	#60 Charcoal	CPBPG6010N	10 lb (4.5 kg)	Box	CPBPG6025N*	25 lb (11.34 kg)	Bag
Canada	#95 Sable Brown	CPBPG9510N	10 lb (4.5 kg)	Box	CPBPG9525N*	25 lb (11.34 kg)	Bag
Canada	#105 Earth	CPBPG10510N	10 lb (4.5 kg)	Box	CPBPG10525N*	25 lb (11.34 kg)	Bag
Canada	#115 Platinum	CPBPG11510N	10 lb (4.5 kg)	Box	CPBPG11525N*	25 lb (11.34 kg)	Bag
Canada	#122 Linen	CPBPG12210N	10 lb (4.5 kg)	Box	CPBPG12225N*	25 lb (11.34 kg)	Bag
Canada	#135 Mushroom	CPBPG13510N	10 lb (4.5 kg)	Box	CPBPG13525N*	25 lb (11.34 kg)	Bag
Canada	#145 Light Smoke	CPBPG14510N	10 lb (4.5 kg)	Box	CPBPG14525N*	25 lb (11.34 kg)	Bag

Canada	#165 Delorean Gray	CPBPG16510N	10 lb (4.5 kg)	Box	CPBPG16525N	25 lb (11.34 kg)	Bag
Canada	#172 Urban Putty	CPBPG17210N	10 lb (4.5 kg)	Box	CPBPG17225N*	25 lb (11.34 kg)	Bag
Canada	#183 Chateau	CPBPG18310N	10 lb (4.5 kg)	Box	CPBPG18325N*	25 lb (11.34 kg)	Bag
Canada	#185 New Taupe	CPBPG18510N	10 lb (4.5 kg)	Box	CPBPG18525N*	25 lb (11.34 kg)	Bag
Canada	#186 Khaki	CPBPG18610N	10 lb (4.5 kg)	Box	CPBPG18625N*	25 lb (11.34 kg)	Bag
Canada	#333 Alabaster	CPBPG33310N	10 lb (4.5 kg)	Box	CPBPG33325N*	25 lb (11.34 kg)	Bag
Canada	#335 Winter Gray	CPBPG33510N	10 lb (4.5 kg)	Box	CPBPG33525N*	25 lb (11.34 kg)	Bag
Canada	#370 Dove Gray	CPBPG37010N	10 lb (4.5 kg)	Box	CPBPG37025N*	25 lb (11.34 kg)	Bag
Canada	#380 Haystack	CPBPG38010N	10 lb (4.5 kg)	Box	CPBPG38025N*	25 lb (11.34 kg)	Bag
Canada	#381 Bright White	CPBPG38110N	10 lb (4.5 kg)	Box	CPBPG38125N*	25 lb (11.34 kg)	Bag

Canada	#382 Bone	CPBPG38210N	10 lb (4.5 kg)	Box	CPBPG38225N*	25 lb (11.34 kg)	Bag
Canada	#386 Oyster Gray	CPBPG38610N	10 lb (4.5 kg)	Box	CPBPG38625N*	25 lb (11.34 kg)	Bag
Canada	#540 Truffle	CPBPG54010N	10 lb (4.5 kg)	Box	CPBPG54025N*	25 lb (11.34 kg)	Bag
Canada	#541 Walnut	CPBPG54110N	10 lb (4.5 kg)	Box	CPBPG54125N*	25 lb (11.34 kg)	Bag
Canada	#542 Graystone	CPBPG54210N	10 lb (4.5 kg)	Box	CPBPG54225N*	25 lb (11.34 kg)	Bag
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Canada	#640 Arctic White	CPBPG64010N	10 lb (4.5 kg)	Box	CPBPG64025N*	25 lb (11.34 kg)	Bag
Canada	#641 Cool White	CPBPG64110N	10 lb (4.5 kg)	Box	CPBPG64125N*	25 lb (11.34 kg)	Bag
Canada	#642 Ash	CPBPG64210N	10 lb (4.5 kg)	Box	CPBPG64225N*	25 lb (11.34 kg)	Bag
Canada	#643 Warm Gray	CPBPG64310N	10 lb (4.5 kg)	Box	CPBPG64325N*	25 lb (11.34 kg)	Bag

Canada	#644 Shadow	CPBPG64410N	10 lb (4.5 kg)	Box	CPBPG64425N*	25 lb (11.34 kg)	Bag
Canada	#645 Steel Blue	CPBPG64510N	10 lb (4.5 kg)	Box	CPBPG64525N*	25 lb (11.34 kg)	Bag
Canada	#646 Coffee Bean	CPBPG64610N	10 lb (4.5 kg)	Box	CPBPG64625N*	25 lb (11.34 kg)	Bag
Canada	#647 Brown Velvet	CPBPG64710N	10 lb (4.5 kg)	Box	CPBPG64725N*	25 lb (11.34 kg)	Bag

* Indicates special order item.

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. © 2019 Quikrete International, Inc.

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

Ceramic Tile Caulk

Commercial 100% Silicone Sealant

TileLab® SurfaceGard® Sealer

Coverage Chart

Polyblend®Plus Non-Sanded Grout

For 10 lb. box of Polyblend Plus Nonsanded 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)	88 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.