

POLYBLEND® NON-SANDED GROUT

1. Product Name

Polyblend® Non-Sanded Grout

2. Manufacturer

Custom Building Products
13001 Seal Beach Blvd.
Seal Beach, CA 90740-2757
Customer Support: 800-272-8786
Technical Services: 800-282-8786
Fax: 800- 200-7765
Email: contactus@cbpmail.net
custombuildingproducts.com

3. Product Description

Polyblend Non-Sanded Grout is a polymer-modified 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 to 1/8" (3 mm) and can be used for interior or exterior installations, including floors, countertops, walls, ceilings, showers, fountains and pools.

Polyblend Non-Sanded Grout can be used with the following tile types:

- Vitreous, semi-vitreous or non-vitreous tile: ceramic, mosaic, quarry, cement body tiles
- Impervious porcelain and glass tile
- Brick and thin brick
- Precast terrazzo
- Natural stone tile

COMPOSITION & MATERIALS

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

BENEFITS

- Consistent color
- Excellent for highly glazed ceramic tile and highly polished marble or natural stone
- Resists shrinking, cracking, powdering and wear
- Exceeds ANSI A118.6 standards
- Rated for residential to extra heavy commercial use

LIMITATIONS

- Polyblend Non-Sanded Grout should not be installed when ambient temperature is lower than 50° F (10° C) or higher than 100° F (38° C).
- Polyblend Non-Sanded Grout is appropriate for tile that may be damaged by sanded grout. Some ceramic tile, marble or stone can be scratched, stained or damaged by sanded or pigmented grout. Test a small area prior to use.



- Tile with high absorption, surface porosity or rough, textured surfaces and certain types of porcelain may require sealing prior to grouting to prevent staining. Use TileLab® SurfaceGard® Stone, Grout & Tile Sealer to prevent grout 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 clean-up.
- 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 2 sizes:
10 lb (4.5 kg) box
25 lb (11.34 kg) bag
- Available in 48 standard colors; color matching is available. View color selections at custombuildingproducts.com.

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



Resilient Floor Covering Institute (RFCI) — Recommended Work Practices for Removal of Resilient Floor Coverings.

Tile Council of North America (TCNA) — TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171

APPROVALS

Polyblend Non-Sanded Grout meets or exceeds ANSI A118.6 standards.

TECHNICAL PROPERTIES

Property	Typical Results
ANSI standard	A118.6
Pot life	1 - 2 hours
Initial set	5 hours
Final set	6 hours
Shrinkage (Sec 4.3)	
7 days	<0.10%
Water absorption (Sec 4.4)	
After immersion	16%
After drying	19%
Compressive strength (Sec 4.5)	3300 psi (232 kg/cm ²)
Tensile strength (Sec 4.6)	
28 days	525 psi (36.9 kg/cm ²)
Flexural strength (Sec 4.7)	
7 days	>790 psi (>55.6 kg/cm ²)

ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

Use of Polyblend Non-Sanded Grout can contribute to LEED® certification.

5. Installation

PREPARATORY WORK

Tile or stone must be firmly bonded to a sound substrate, and setting material must be cured a minimum 24 - 48 hours before grouting, unless rapid setting mortars are used.

See the corresponding data for the rapid setting 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 Stone, Grout & Tile Sealer to seal tile or stone subject to staining.

Mix materials per the following guidelines:

Mix 3 pt (1.4 L) clean water to 10 lb (4.5 kg) grout.

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.

METHODS

Application

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. 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 a microfiber towel, cheesecloth or wrung-out sponge. If haze persists, the installation can be acid washed after 72 hours with a suitable diluted acid. Do not acid wash within the first 72 hours.

Curing

Curing time is affected by ambient and surface temperatures and humidity. Use the following as a guideline.

Periodically misting the installation with clean, cool water for 3 days is recommended.

Cleaning

Clean tools and hands with water before the material dries.

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.

BUILDING CODES

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



6. Availability & Cost

Contact the manufacturer or visit custombuildingproducts.com for information about product cost and availability.

COLOR	ITEM CODE	SIZE	PKG	ITEM CODE	SIZE	PKG
USA Stock Colors						
#9 Natural Gray	PBG0910	10 lb (4.5 kg)	Box	NSG0925*	25 lb (11.34 kg)	Bag
#10 Antique White	PBG1010	10 lb (4.5 kg)	Box	NSG1025**	25 lb (11.34 kg)	Bag
#11 Snow White	PBG1110	10 lb (4.5 kg)	Box	NSG1125**	25 lb (11.34 kg)	Bag
#14 White Dove	PBG1410	10 lb (4.5 kg)	Box	NSG1425*	25 lb (11.34 kg)	Bag
#17 Butter Cream	PBG1710	10 lb (4.5 kg)	Box	NSG1725*	25 lb (11.34 kg)	Bag
#19 Pewter	PBG1910	10 lb (4.5 kg)	Box	NSG1925*	25 lb (11.34 kg)	Bag
#22 Sahara Tan	PBG2210	10 lb (4.5 kg)	Box	NSG2225*	25 lb (11.34 kg)	Bag
#35 Chaparral	PBG3510	10 lb (4.5 kg)	Box	NSG3525*	25 lb (11.34 kg)	Bag
#45 Summer Wheat	PBG4510	10 lb (4.5 kg)	Box	NSG4525*	25 lb (11.34 kg)	Bag
#50 Nutmeg	PBG5010	10 lb (4.5 kg)	Box	NSG5025*	25 lb (11.34 kg)	Bag
#52 Tobacco Brown	PBG5210	10 lb (4.5 kg)	Box	NSG5225*	25 lb (11.34 kg)	Bag
#59 Saddle Brown	PBG5910	10 lb (4.5 kg)	Box	NSG5925*	25 lb (11.34 kg)	Bag
#60 Charcoal	PBG6010	10 lb (4.5 kg)	Box	NSG6025*	25 lb (11.34 kg)	Bag
#90 Ocean Blue	PBG9010	10 lb (4.5 kg)	Box	NSG9025*	25 lb (11.34 kg)	Bag
#92 Admiral Blue	PBG9210	10 lb (4.5 kg)	Box	NSG9225*	25 lb (11.34 kg)	Bag
#95 Sable Brown	PBG9510	10 lb (4.5 kg)	Box	NSG9525*	25 lb (11.34 kg)	Bag
#96 Quarry Red Clay	PBG9610	10 lb (4.5 kg)	Box	NSG9625*	25 lb (11.34 kg)	Bag
#99 Burnt Clay	PBG9910	10 lb (4.5 kg)	Box	NSG9925*	25 lb (11.34 kg)	Bag
#101 Quartz	PBG10110	10 lb (4.5 kg)	Box	NSG10125*	25 lb (11.34 kg)	Bag
#105 Earth	PBG10510	10 lb (4.5 kg)	Box	NSG10525*	25 lb (11.34 kg)	Bag
#115 Platinum	PBG11510	10 lb (4.5 kg)	Box	NSG11525*	25 lb (11.34 kg)	Bag
#122 Linen	PBG12210	10 lb (4.5 kg)	Box	NSG12225***	25 lb (11.34 kg)	Bag
#127 Antique Linen	PBG12710	10 lb (4.5 kg)	Box	NSG12725*	25 lb (11.34 kg)	Bag
#135 Mushroom	PBG13510	10 lb (4.5 kg)	Box	NSG13525*	25 lb (11.34 kg)	Bag
#145 Light Smoke	PBG14510	10 lb (4.5 kg)	Box	NSG14525*	25 lb (11.34 kg)	Bag
#156 Fawn	PBG15610	10 lb (4.5 kg)	Box	NSG15625*	25 lb (11.34 kg)	Bag
#165 Delorean Gray	PBG16510	10 lb (4.5 kg)	Box	NSG16525***	25 lb (11.34 kg)	Bag
#168 Slate Gray	PBG16810	10 lb (4.5 kg)	Box	NSG16825*	25 lb (11.34 kg)	Bag
#172 Urban Putty	PBG17210	10 lb (4.5 kg)	Box	NSG17225	25 lb (11.34 kg)	Bag
#180 Sandstone	PBG18010	10 lb (4.5 kg)	Box	NSG18025*	25 lb (11.34 kg)	Bag
#183 Chateau	PBG18310	10 lb (4.5 kg)	Box	NSG18325*	25 lb (11.34 kg)	Bag
#185 New Taupe	PBG18510	10 lb (4.5 kg)	Box	NSG18525*	25 lb (11.34 kg)	Bag
#186 Khaki	PBG18610	10 lb (4.5 kg)	Box	NSG18625*	25 lb (11.34 kg)	Bag
#190 Bay Leaf	PBG19010	10 lb (4.5 kg)	Box	NSG19025*	25 lb (11.34 kg)	Bag
#301 Arctic Ice	PBG30110	10 lb (4.5 kg)	Box	NSG30125*	25 lb (11.34 kg)	Bag
#305 Onyx Green	PBG30510	10 lb (4.5 kg)	Box	NSG30525*	25 lb (11.34 kg)	Bag
#311 Moss	PBG31110	10 lb (4.5 kg)	Box	NSG31125*	25 lb (11.34 kg)	Bag
#312 Bonsai	PBG31210	10 lb (4.5 kg)	Box	NSG31225*	25 lb (11.34 kg)	Bag
#333 Alabaster	PBG33310	10 lb (4.5 kg)	Box	NSG33325*	25 lb (11.34 kg)	Bag
#335 Winter Gray	PBG33510	10 lb (4.5 kg)	Box	NSG33525***	25 lb (11.34 kg)	Bag
#365 Canvas	PBG36510	10 lb (4.5 kg)	Box	NSG36525***	25 lb (11.34 kg)	Bag
#370 Dove Gray	PBG37010	10 lb (4.5 kg)	Box	NSG37025*	25 lb (11.34 kg)	Bag
#380 Haystack	PBG38010	10 lb (4.5 kg)	Box	NSG38025***	25 lb (11.34 kg)	Bag
#381 Bright White	PBG38110	10 lb (4.5 kg)	Box	NSG38125**	25 lb (11.34 kg)	Bag
#382 Bone	PBG38210	10 lb (4.5 kg)	Box	NSG38225**	25 lb (11.34 kg)	Bag
#384 Camel	PBG38410	10 lb (4.5 kg)	Box	NSG38425*	25 lb (11.34 kg)	Bag
#386 Oyster Gray	PBG38610	10 lb (4.5 kg)	Box	NSG38625*	25 lb (11.34 kg)	Bag
#390 Rose Beige	PBG39010	10 lb (4.5 kg)	Box	NSG39025*	25 lb (11.34 kg)	Bag

* Indicates special order item.

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

*** Available from Georgia plant only.



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Canada Stock Colors						
#9 Natural Gray	CPBG0910	10 lb (4.5 kg)	Box	CNSG0925*	25 lb (11.34 kg)	Bag
#10 Antique White	CPBG1010	10 lb (4.5 kg)	Box	CNSG1025*	25 lb (11.34 kg)	Bag
#11 Snow White	CPBG1110	10 lb (4.5 kg)	Box	CNSG1125*	25 lb (11.34 kg)	Bag
#14 White Dove	CPBG1410	10 lb (4.5 kg)	Box	CNSG1425*	25 lb (11.34 kg)	Bag
#17 Butter Cream	CPBG1710	10 lb (4.5 kg)	Box	CNSG1725*	25 lb (11.34 kg)	Bag
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#50 Nutmeg	CPBG5010	10 lb (4.5 kg)	Box	CNSG5025*	25 lb (11.34 kg)	Bag
#52 Tobacco Brown	CPBG5210	10 lb (4.5 kg)	Box	CNSG5225*	25 lb (11.34 kg)	Bag
#59 Saddle Brown	CPBG5910	10 lb (4.5 kg)	Box	CNSG5925*	25 lb (11.34 kg)	Bag
#60 Charcoal	CPBG6010	10 lb (4.5 kg)	Box	CNSG6025*	25 lb (11.34 kg)	Bag
#90 Ocean Blue	CPBG9010	10 lb (4.5 kg)	Box	CNSG9025*	25 lb (11.34 kg)	Bag
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#168 Slate Gray	CPBG16810	10 lb (4.5 kg)	Box	CNSG16825*	25 lb (11.34 kg)	Bag
#172 Urban Putty	CPBG17210	10 lb (4.5 kg)	Box	CNSG17225	25 lb (11.34 kg)	Bag
#180 Sandstone	CPBG18010	10 lb (4.5 kg)	Box	CNSG18025*	25 lb (11.34 kg)	Bag
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* Indicates special order item.



7. Limited Product Warranty

This product is eligible for Custom Building Products Lifetime Installations Systems 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. For details and complete warranty information, visit custombuildingproducts.com

8. Maintenance

To extend the life of Polyblend Non-Sanded Grout, use TileLab SurfaceGard Stone, Grout & Tile Sealer. Do not use acidic cleaners on Polyblend Grouts as long term damage may occur. The use of pH neutral cleaners is recommended.

9. Technical Services

For technical assistance, contact Custom Building Products or visit custombuildingproducts.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

Related Products

- Polyblend® Ceramic Tile Caulk
- Commercial 100% Silicone Caulk
- TileLab® SurfaceGard® Stone, Grout & Tile Sealer
- StainBlocker for Grout

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Coverage
Coverage will vary depending on the tile size and joint width.

SQUARE FOOT COVERAGE PER 10 LB BOX (SQUARE METER COVERAGE PER 4.5 KG)	JOINT WIDTH	
	1/16" (1.6 MM)	1/8" (3 MM)
TILE SIZE		
1" x 1" x 1/4" (25 x 25 x 6 mm)	44 (4.1)	20 (1.9)
2" x 2" x 1/4" (50 x 50 x 6 mm)	85 (7.9)	40 (3.7)
3" x 3" x 1/4" (75 x 75 x 6 mm)	126 (11.7)	60 (5.6)
4 1/4" x 4 1/4" x 1/4" (108 x 108 x 6 mm)	149 (13.8)	78 (7.2)
6" x 6" x 1/4" (150 x 150 x 6 mm)	250 (23.2)	120 (11.1)
8" x 8" x 3/8" (200 x 200 x 9.5 mm)	220 (20.4)	110 (10.2)
12" x 12" x 3/8" (300 x 300 x 9.5 mm)	331 (30.1)	171 (15.9)
16" x 16" x 3/8" (400 x 400 x 9.5 mm)	370 (34.4)	185 (17.2)
20" x 20" x 3/8" (500 x 500 x 9.5 mm)	453 (42.1)	227 (21.1)
24" x 24" x 3/8" (600 x 600 x 9.5 mm)	659 (61.2)	330 (30.7)

