

Polyblend® HP High Performance Fine Aggregate Grout

1. Product Name

Polyblend® HP High Performance Fine Aggregate Grout

2. Product Description

Polyblend® HP High Performance Fine Aggregate Grout is a new high-performance cement grout that has the added benefit of fine aggregate sand that allows for use in the smallest of grout joints. Polyblend® HP meets ANSI A118.7 high-performance requirements and produces hard, dense joints that resist shrinking, cracking and wear. Polyblend® HP has all the value-added features of the Polyblend® family: excellent performance, enhanced finished color with better color consistency. The fine aggregate sand fits into the smallest grout joints and eliminates the need for non-sanded grout for most installations. Polyblend® HP High Performance Fine Aggregate Grout accommodates up to 3/4" (19 mm) joints for interior or exterior installations, including floors, countertops, walls, ceilings, showers, fountains, and pools.

Key Features

- One grout for all joint sizes up to 3/4"
- Advanced color consistency
- Improved resistance to efflorescence
- Meets ANSI 118.7 High Performance Grout Standard without additive
- Easy to use - Just mix with water
- Polymer fortified for hard, durable, professional results

Uses

- Use to fill all joint widths up to 3/4" (19 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)

Composition of Product

Polyblend® HP High Performance Fine Aggregate Grout is a dry, portland cement based grout with silica sand, inorganic aggregates and chemicals.

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).
- Some ceramic, glass, metal, marble or stone tiles can be scratched or damaged by the silica aggregate filler. Perform a test on a small area prior to use.
- 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. Different 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 and commercial kitchen tile installations, use [CEG-IG 100% Solids Industrial Grade 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 [CUSTOM® Commercial 100% Silicone Sealant](#) or [Polyblend® Ceramic Tile Caulk](#).



Polyblend® HP High Performance Fine Aggregate Grout

Packaging

Available in:

- 25 lbs. (11.34 kg) bag available in 40 colors

3. Technical Data

Applicable Standards

- American National Standards Institute (ANSI) ANSI A108.10, A118.6 & A118.7 of the 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
- ISO 13007-3 Ceramic Tiles - Grouts & Adhesives

Technical Chart

Property	Test Method	Requirement	Typical Results
Pot Life	ANSI A118.7		1 - 2 Hours
28 Day Shrinkage	Section 3.3	< 0.20%	< 0.20%
28 Day Water Absorption	Section 3.4	< 5%	< 5%
1 Day Compressive Strength	Section 3.5	> 500 psi (35.2 kg/cm ²)	> 500 psi (35.2 kg/cm ²)
28 Day Compressive Strength	Section 3.5	> 3000 psi (210.9 kg/cm ²)	> 3000 psi (210.9 kg/cm ²)
28 Day Tensile Strength	Section 3.6	> 500 psi (35.2 kg/cm ²)	> 500 psi (35.2 kg/cm ²)
28 Day Flexural Strength	Section 3.7	> 1000 psi (70.3 kg/cm ²)	> 1000 psi (70.3 kg/cm ²)

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® certification:

- Up to 2 points towards MR Credit 5, Regional Materials
- Up to 1 point towards IEQ Credit 4.1, Low Emitting Low Emitting Materials - Adhesives & Sealants
- Complies With CA Section 01350 and CDPH V1.2-2017



Polyblend® HP High Performance Fine Aggregate Grout

4. Instructions

General Surface Prep

Always wear proper protective equipment when handling the product, including IMPERVIOUS GLOVES, such as nitrile, safety glasses, and a NIOSH N95 respirator (mask).

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 [Aqua Mix® Grout Release](#) or [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

- o Mix 2 qt - 2.5 qt (1.9 L - 2.3 L) clean water to 25 lbs. (11.34 kg) grout.

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 (approximately 3 minutes). Let the mixture stand (slake) for 5 minutes and then remix and use.

Important Note: After 5 minute slake period, the grout will appear stiff. Remixing without adding water will bring grout back to the desired consistency; this will greatly increase bucket life. Periodically remix as needed to keep the mixture workable, but do not add water, which can weaken the grout, cause color variation and possibly 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 Aqua Mix® Cement Grout Haze Remover. Perform a test in an inconspicuous area prior to completing 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. Do not open to foot traffic before it has cured for 16 hours. Protect from heavy traffic until fully cured. Enclose and protect installations and maintain >50° F (10° C) temperatures for at least 72 hours for proper cure.

Exterior applications must be protected from rain, snow and other wet conditions for at least 7 days with temperatures 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.

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 [Aqua Mix® UltraSolv®](#) or [TileLab® SurfaceGard® Sealer](#).

Polyblend® HP High Performance Fine Aggregate Grout

Cleaning of Equipment

Clean tools and hands with water before the material dries.

Health Precautions

DANGER: CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. PROLONGED OR REPEATED INHALATION OF DUST MAY CAUSE LUNG DAMAGE OR CANCER. DO NOT BREATHE DUST OR SWALLOW. You cannot rely on pain to alert you to cement burns. cement can cause dermatitis or sensitization. A NIOSH N95 respirator (mask) is recommended, especially in poorly ventilated areas, when use is frequent, or when permissible exposure limits may be exceeded. Immediately wash contaminated body and clothing thoroughly. If in eyes: rinse cautiously with water for several minutes; remove contact lenses if easy to do; continue rinsing. If inhaled: remove person to fresh air and keep comfortable for breathing. If swallowed: rinse mouth; do NOT induce vomiting. If you experience a burn, rash or skin irritation: immediately see a doctor. Immediately seek medical attention if any symptoms are significant or persist. In Emergency: 1-800-535-5053. **Contains: silica sand, portland cement, titanium dioxide, and may contain carbon black.** Before handling read Safety Data Sheet at www.custombuildingproducts.com.

KEEP OUT OF REACH OF CHILDREN.

⚠ WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and hexavalent chromium compounds, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Conformance to Building Codes

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

Technical Services Information

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

Product Warranty

NOTICE: Obtain the applicable **LIMITED PRODUCT WARRANTY** at www.custombuildingproducts.com/warranties or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of Custom Building Products, Inc. © 2025 Quikrete International, Inc.

5. Ordering: Item Code and Sizes

ITEM CODE	DESCRIPTION	UOM DESC
PBHPG0925	#09 NATURAL GRAY PBG-HP	25Lb Bag
PBHPG1025	#10 ANTIQUE WHITE PBG-HP	25Lb Bag
PBHPG10525	#105 EARTH PBG-HP	25Lb Bag
PBHPG1125	#11 SNOW WHITE PBG-HP	25Lb Bag
PBHPG11525	#115 PLATINUM PBG-HP	25Lb Bag
PBHPG12225	#122 LINEN PBG-HP	25Lb Bag
PBHPG13525	#135 MUSHROOM PBG-HP	25Lb Bag
PBHPG14525	#145 LIGHT SMOKE PBG-HP	25Lb Bag
PBHPG16525	#165 DELOREAN GRAY PBG-HP	25Lb Bag
PBHPG17225	#172 URBAN PUTTY PBG-HP	25Lb Bag
PBHPG18325	#183 CHATEAU PBG-HP	25Lb Bag
PBHPG18525	#185 NEW TAUPE PBG-HP	25Lb Bag
PBHPG18625	#186 KHAKI PBG-HP	25Lb Bag
PBHPG1925	#19 PEWTER PBG-HP	25Lb Bag
PBHPG33325	#333 ALABASTER PBG-HP	25Lb Bag
PBHPG33525	#335 WINTER GRAY PBG-HP	25Lb Bag

Polyblend® HP High Performance Fine Aggregate Grout

PBHPG37025	#370 DOVE GRAY PBG-HP	25Lb Bag
PBHPG38025	#380 HAYSTACK PBG-HP	25Lb Bag
PBHPG38125	#381 BRIGHT WHITE PBG-HP	25Lb Bag
PBHPG38225	#382 BONE PBG-HP	25Lb Bag
PBHPG38625	#386 OYSTER GRAY PBG-HP	25Lb Bag
PBHPG5225	#52 TOBACCO BROWN PBG-HP	25Lb Bag
PBHPG54025	#540 TRUFFLE PBG-HP	25Lb Bag
PBHPG54125	#541 WALNUT PBG-HP	25Lb Bag
PBHPG54225	#542 GRAYSTONE PBG-HP	25Lb Bag
PBHPG54325	#543 DRIFTWOOD PBG-HP	25Lb Bag
PBHPG54425	#544 ROLLING FOG PBG-HP	25Lb Bag
PBHPG54525	#545 BLEACHED WOOD PBG-HP	25Lb Bag
PBHPG54625	#546 CAPE GRAY PBG-HP	25Lb Bag
PBHPG5925	#59 SADDLE BROWN PBG-HP	25Lb Bag
PBHPG6025	#60 CHARCOAL PBG-HP	25Lb Bag
PBHPG64025	#640 ARCTIC WHITE PBG-HP	25Lb Bag
PBHPG64125	#641 COOL WHITE PBG-HP	25Lb Bag
PBHPG64225	#642 ASH PBG-HP	25Lb Bag
PBHPG64325	#643 WARM GRAY PBG-HP	25Lb Bag
PBHPG64425	#644 SHADOW PBG-HP	25Lb Bag
PBHPG64525	#645 STEEL BLUE PBG-HP	25Lb Bag
PBHPG64625	#646 COFFEE BEAN PBG-HP	25Lb Bag
PBHPG64725	#647 BROWN VELVET PBG-HP	25Lb Bag
PBHPG9525	#95 SABLE BROWN PBG-HP	25Lb Bag

Related CUSTOM® Products

Ceramic Tile Caulk
 Commercial 100% Silicone Sealant
 TileLab® SurfaceGard® Sealer
 StainBlocker for Grout
 Polyblend® Plus Non-Sanded Grout

Coverage Chart

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](https://www.custombuildingproducts.com) or contact CUSTOM Technical Services at 800-282-8786.

Polyblend® HP High Performance Fine Aggregate Grout

Tile Size	Joint Width						
	1/16" (1.6 mm)	1/8" (3 mm)	3/16" (4.8 mm)	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (13 mm)	3/4" (19 mm)
Width x Length x Thickness							
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	108 ft ² (10 m ²)	54 ft ² (5 m ²)	40 ft ² (3.7 m ²)	33 ft ² (3.1 m ²)	27 ft ² (2.5 m ²)	24 ft ² (2.2 m ²)	11 ft ² (1.0 m ²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	192 ft ² (17.8 m ²)	96 ft ² (8.9 m ²)	68 ft ² (6.3 m ²)	54 ft ² (5.0 m ²)	40 ft ² (3.7 m ²)	33 ft ² (3.1 m ²)	18 ft ² (1.7 m ²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	276 ft ² (25.6 m ²)	138 ft ² (12.9 m ²)	96 ft ² (8.9 m ²)	74 ft ² (7 m ²)	54 ft ² (5 m ²)	43 ft ² (4 m ²)	24-2/3 ft ² (2.3 m ²)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	384 ft ² (35.7 m ²)	192 ft ² (17.8 m ²)	131 ft ² (12.2 m ²)	101 ft ² (9.4 m ²)	71 ft ² (6.6 m ²)	56 ft ² (5.2 m ²)	33-2/3 ft ² (3.1 m ²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	532 ft ² (49.4 m ²)	266 ft ² (24.7 m ²)	181 ft ² (16.8 m ²)	139 ft ² (12.9 m ²)	96 ft ² (8.9 m ²)	75 ft ² (7.0 m ²)	46-1/3 ft ² (4.3 m ²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	468 ft ² (43.5 m ²)	234 ft ² (21.7 m ²)	158 ft ² (14.7 m ²)	121 ft ² (11.2 m ²)	83 ft ² (7.7 m ²)	64 ft ² (6 m ²)	40-1/3 ft ² (3.7 m ²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	696 ft ² (64.7 m ²)	348 ft ² (32.3 m ²)	234 ft ² (21.7 m ²)	177 ft ² (16.5 m ²)	121 ft ² (11.2 m ²)	92 ft ² (8.6 m ²)	59 ft ² (5.5 m ²)
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	924 ft ² (85.8 m ²)	462 ft ² (42.8 m ²)	310 ft ² (28.8 m ²)	234 ft ² (21.7 m ²)	158 ft ² (14.7 m ²)	121 ft ² (11.2 m ²)	78 ft ² (7.2 m ²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	1036 ft ² (96.2 m ²)	518 ft ² (48.1 m ²)	348 ft ² (32.3 m ²)	262 ft ² (24.4 m ²)	177 ft ² (16.5 m ²)	135 ft ² (12.5 m ²)	87-1/3 ft ² (8.1 m ²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	1148 ft ² (106.7 m ²)	574 ft ² (53.4 m ²)	385 ft ² (35.8 m ²)	291 ft ² (27 m ²)	196 ft ² (18.2 m ²)	149 ft ² (13.8 m ²)	65-1/3 ft ² (6.1 m ²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	1376 ft ² (127.8 m ²)	688 ft ² (63.9 m ²)	461 ft ² (42.8 m ²)	348 ft ² (32.3 m ²)	234 ft ² (21.7 m ²)	177 ft ² (16.5 m ²)	78 ft ² (7.2 m ²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	558 ft ² (51.8 m ²)	279 ft ² (26 m ²)	189 ft ² (17.5 m ²)	143 ft ² (13.3 m ²)	98 ft ² (9.1 m ²)	75 ft ² (7 m ²)	47-2/3 ft ² (4.4 m ²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	922 ft ² (85.7 m ²)	461 ft ² (42.8 m ²)	310 ft ² (28.8 m ²)	234 ft ² (21.7 m ²)	158 ft ² (14.7 m ²)	121 ft ² (11.2 m ²)	78 ft ² (7.2 m ²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	598 ft ² (55.6 m ²)	299 ft ² (27.8 m ²)	202 ft ² (18.7 m ²)	153 ft ² (14.2 m ²)	104 ft ² (9.7 m ²)	80 ft ² (7.4 m ²)	51 ft ² (4.7 m ²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	832 ft ² (77.3 m ²)	416 ft ² (38.6 m ²)	279 ft ² (26 m ²)	211 ft ² (19.6 m ²)	143 ft ² (13.3 m ²)	109 ft ² (10.2 m ²)	70-1/3 ft ² (6.5 m ²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	1104 ft ² (102.6 m ²)	552 ft ² (51.3 m ²)	370 ft ² (34.4 m ²)	279 ft ² (26 m ²)	189 ft ² (17.5 m ²)	143 ft ² (13.3 m ²)	93 ft ² (8.6 m ²)