

Prism® Ultimate Performance Grout

1 Product Name

Prism® Ultimate Performance Grout

2 Manufacturer

Custom Building Products
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3 Product Description

Prism® Ultimate Performance Grout sets a new standard in cement-based grout technology. Prism's calcium Aluminate cement based formula offers consistent color with no shading regardless of tile type, temperature or humidity. And it will not effloresce. The rapid setting formula results in high early strength and dense joints for the highest stain resistance in grout joints up to 1/2". A unique blend of lightweight recycled glass and fine aggregate sand allows for a smooth consistency that is easy to spread and clean.

Key Features

- Uniform consistent color
- Won't mottle or shade regardless of tile type, temperature or humidity
- Produces stain resistant, dense grout joints
- No efflorescence
- Lightweight for superior handling
- Fast setting, walkable in four hours
- 17 lbs. (7.71 kg) box covers the same area as a typical 25 lb. bag of conventional grout
- No sealer required

Uses

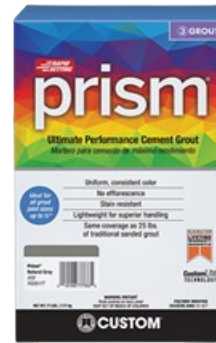
- Use to fill joint widths up to 1/2" (13 mm)
- May be used for both floor and wall installations
- Interior and exterior applications
- Residential and commercial applications
- Countertops, tub surrounds, showers and high traffic areas
- Submerged conditions (swimming pools, spas, water features and fountains)

Suitable Tile Types

- Vitreous, semi-vitreous or non-vitreous tile
- Impervious porcelain and glass tile
- Brick and thin brick
- Precast terrazzo
- Natural stone tile

Composition of Product

Prism® grout is a blend of specialty cements, recycled aggregates and chemicals.



Benefits of Product in the Installation

- Hard, dense grout joints
- Resists shrinking, cracking, powdering and wear
- Consistent color without shading or efflorescence
- Cures quickly, developing high early strength
- 32% lighter than typical grouts; excellent handling characteristics
- Contains 15% (by weight) post-consumer recycled material

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 lightweight aggregate filler. Perform a test on a small area prior to use. [Polyblend® NonSanded Grout](#) may be appropriate for joints up to 1/8" or for tile not suited for sanded grout.
- 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.
- 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 Caulk](#) or [Ceramic Tile Caulk](#).

Packaging

- 17 lb (7.71 kg) box containing two (2) 8.5 lb (3.85 kg) sealed bags
- Available in 40 standard colors. Color matching is available.



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4 Technical Data

Applicable Standards

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

Approvals

Prism® Ultimate Performance Grout meets ANSI A118.6 and A118.7 standards.

Technical Chart

Property	Test Method	Requirement	Typical Results
Pot Life			60-90 Minutes
Shrinkage	A118.7 Section 3.3	< 0.20%	<0.2%
Water Absorption	A118.7 Section 3.4	< 5%	<5%
Compressive Strength	A118.7 Section 3.5	> 3000 psi	>3000 psi (209.4 kg/cm sq.)
Tensile Strength	A118.7 Section 3.6	> 500 psi	>500 psi (35.2 kg/cm sq)
Flexural Strength	A118.7 Section 3.7	> 1000 psi	>1000 psi (70.5 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 2 points towards MR Credit 4, Recycled Content
- 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 4-5 pt (1.89-2.36 L) clean water to 17 lb (7.71 kg) box. Mix only with cool, potable water.

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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. Let the mixture stand (slake) for 5 minutes, and then remix and use. Periodically remix to keep the mixture workable, but do not add water, which can weaken the grout, 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 (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. Use the following as a guideline. For exterior applications in hot, dry and windy conditions, it is recommended that the installation is periodically misted with clean, cool water for 3 days. Can be subjected to intermittent water exposure after 3 days. For submerged applications, allow grout to cure for 14 days before filling the area with water.

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 installations and maintain >50° F (10° C) temperatures for at least 72 hours for proper cure.

Sealing of Grout

When enhanced stain protection is desired, use a pH-neutral, water-based sealer such as AquaMix Sealer's Choice Gold or TileLab SurfaceGard. Allow grout to cure at least 48 hours prior to sealing.

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.

6 Availability & Cost

Location	Item Code	Size	Grout Color	Package
USA	PG0917T	17 lb (7.71 kg)	#9 Natural Gray	Box
USA	PG1017T	17 lb (7.71 kg)	#10 Antique White	Box
USA	PG1117T	17 lb (7.71 kg)	#11 Snow White	Box
USA	PG1917T	17 lb (7.71 kg)	#19 Pewter	Box
USA	PG5217T	17 lb (7.71 kg)	#52 Tobacco Brown	Box
USA	PG5917T	17 lb (7.71 kg)	#59 Saddle Brown	Box
USA	PG6017T	17 lb (7.71 kg)	#60 Charcoal	Box
USA	PG9517T	17 lb (7.71 kg)	#95 Sable Brown	Box
USA	PG10517T	17 lb (7.71 kg)	#105 Earth	Box
USA	PG11517T	17 lb (7.71 kg)	#115 Platinum	Box
USA	PG12217T	17 lb (7.71 kg)	#122 Linen	Box
USA	PG13517T	17 lb (7.71 kg)	#135 Mushroom	Box
USA	PG14517T	17 lb (7.71 kg)	#145 Light Smoke	Box
USA	PG16517T	17 lb (7.71 kg)	#165 Delorean Gray	Box
USA	PG17217T	17 lb (7.71 kg)	#172 Urban Putty	Box
USA	PG18317T	17 lb (7.71 kg)	#183 Chateau	Box
USA	PG18517T	17 lb (7.71 kg)	#185 New Taupe	Box

USA	PG18617T	17 lb (7.71 kg)	#186 Khaki	Box
USA	PG33317T	17 lb (7.71 kg)	#333 Alabaster	Box
USA	PG33517T	17 lb (7.71 kg)	#335 Winter Gray	Box

USA	PG37017T	17 lb (7.71 kg)	#370 Dove Gray	Box
USA	PG38017T	17 lb (7.71 kg)	#380 Haystack	Box
USA	PG38117T	17 lb (7.71 kg)	#381 Bright White	Box
USA	PG38217T	17 lb (7.71 kg)	#382 Bone	Box
USA	PG38617T	17 lb (7.71 kg)	#386 Oyster Gray	Box
USA	PG40117T	17 lb (7.71 kg)	#540 Truffle	Box
USA	PG54117T	17 lb (7.71 kg)	#541 Walnut	Box
USA	PG54217T	17 lb (7.71 kg)	#542 Graystone	Box
USA	PG54317T	17 lb (7.71 kg)	#543 Driftwood	Box
USA	PG54417T	17 lb (7.71 kg)	#544 Rolling Fog	Box
USA	PG54517T	17 lb (7.71 kg)	#545 Bleached Wood	Box
USA	PG54617T	17 lb (7.71 kg)	#546 Cape Gray	Box
USA	PG64017T	17 lb (7.71 kg)	#640 Arctic White	Box
USA	PG64117T	17 lb (7.71 kg)	#641 Cool White	Box
USA	PG64217T	17 lb (7.71 kg)	#642 Ash	Box
USA	PG64317T	17 lb (7.71 kg)	#642 Warm Gray	Box
USA	PG64417T	17 lb (7.71 kg)	#644 Shadow	Box
USA	PG64517T	17 lb (7.71 kg)	#645 Steel Blue	Box
USA	PG64617T	17 lb (7.71 kg)	#646 Coffee Bean	Box
USA	PG64717T	17 lb (7.71 kg)	#647 Brown Velvet	Box



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Canada	CPG0917	17 lb (7.71 kg)	#09 Natural Gray	Box
Canada	CPG1017	17 lb (7.71 kg)	#10 Antique White	Box
Canada	CPG10517	17 lb (7.71 kg)	#105 Earth	Box
Canada	CPG1117	17 lb (7.71 kg)	#11 Snow White	Box
Canada	CPG11517	17 lb (7.71 kg)	#115 Platinum	Box
Canada	CPG12217	17 lb (7.71 kg)	#122 Linen	Box
Canada	CPG13517	17 lb (7.71 kg)	#135 Mushroom	Box
Canada	CPG14517	17 lb (7.71 kg)	#145 Light Smoke	Box
Canada	CPG16517	17 lb (7.71 kg)	#165 Delorean Gray	Box
Canada	CPG17217	17 lb (7.71 kg)	#172 Urban Putty	Box
Canada	CPG18317	17 lb (7.71 kg)	#183 Chateau	Box
Canada	CPG18517	17 lb (7.71 kg)	#185 New Taupe	Box
Canada	CPG18617	17 lb (7.71 kg)	#186 Khaki	Box
Canada	CPG1917	17 lb (7.71 kg)	#19 Pewter	Box
Canada	CPG2217	17 lb (7.71 kg)	#22 Sahara Tan	Box
Canada	CPG33317	17 lb (7.71 kg)	#333 Alabaster	Box
Canada	CPG33517	17 lb (7.71 kg)	#335 Winter Gray	Box
Canada	CPG37017	17 lb (7.71 kg)	#370 Dove Gray	Box
Canada	CPG38017	17 lb (7.71 kg)	#380 Haystack	Box
Canada	CPG38117	17 lb (7.71 kg)	#381 Bright White	Box
Canada	CPG38217	17 lb (7.71 kg)	#382 Bone	Box

Canada	CPG38617	17 lb (7.71 kg)	#386 Oyster Gray	Box
Canada	CPG5217	17 lb (7.71 kg)	#52 Tobacco Brown	Box
Canada	CPG54017	17 lb (7.71 kg)	#540 Truffle	Box
Canada	CPG54117	17 lb (7.71 kg)	#541 Walnut	Box
Canada	CPG54217	17 lb (7.71 kg)	#542 Graystone	Box
Canada	CPG54317	17 lb (7.71 kg)	#543 Driftwood	Box
Canada	CPG54417	17 lb (7.71 kg)	#544 Rolling Fog	Box
Canada	CPG54517	17 lb (7.71 kg)	#545 Bleached Wood	Box
Canada	CPG54617	17 lb (7.71 kg)	#546 Cape Gray	Box
Canada	CPG5917	17 lb (7.71 kg)	#59 Saddle Brown	Box
Canada	CPG64017	17 lb (7.71 kg)	#640 Arctic White	Box
Canada	CPG64117	17 lb (7.71 kg)	#641 Cool White	Box
Canada	CPG64217	17 lb (7.71 kg)	#642 Ash	Box
Canada	CPG64317	17 lb (7.71 kg)	#643 Warm Gray	Box
Canada	CPG64417	17 lb (7.71 kg)	#644 Shadow	Box
Canada	CPG64517	17 lb (7.71 kg)	#645 Steel Blue	Box
Canada	CPG64617	17 lb (7.71 kg)	#646 Coffee Bean	Box
Canada	CPG64717	17 lb (7.71 kg)	#647 Brown Velvet	Box
Canada	CPG6017	17 lb (7.71 kg)	#60 Charcoal	Box
Canada	CPG9517	17 lb (7.71 kg)	#95 Sable Brown	Box

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.



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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 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

Prism® Ultimate Performance Grout

Coverage

For 17 lb. box of Prism in ft² (m²) per box

Tile Size Width x Length x Thickness	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)
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	96 ft ² (8.9 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)
2" x 2" x 1/4" (5 x 5 x .64 cm)	181 ft ² (16.8 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)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	266 ft ² (24.7 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)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	372.4 ft ² (34.6 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)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	521 ft ² (48.4 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)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	461 ft ² (42.8 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)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	688 ft ² (63.9 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)
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	915 ft ² (85 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)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	1028 ft ² (95.5 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)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	1142 ft ² (106.1 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)
24" x 24" x 3/8" (61 x 61 x 1 cm)	1369 ft ² (127.2 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)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	552 ft ² (51.3 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)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	915 ft ² (85 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)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	591 ft ² (54.9 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)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	824 ft ² (76.6 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)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	1096 ft ² (101.9 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)

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](tel:800-282-8786).

