1 Product Name

Prism® Ultimate Performance 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

Email: contactus@cbpmail.net custombuildingproducts.com

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

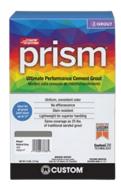
- Use to fill joint widths up to 1/2" (13 mm)
- May be used for both floor and wall installations
- Interior and exterior applications
- Residential and commercial applications
- · Countertops, tub surrounds, showers and high traffic areas
- Submerged conditions (swimming pools, spas, water features 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. <u>Polyblend® NonSanded Grout</u> 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 <u>CEG-IG 100% Solids Epoxy</u> 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 <u>Commercial 100% Silicone Caulk</u> or <u>Ceramic Tile Caulk</u>.

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.



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. Published Date: 7/20/2020

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. To clean residual grout haze from tiles, the installation can be cleaned after 24 hours using Agua Mix® Non Cement Grout Haze Remover or Agua Mix® Grout Haze Clean-Up . These products may also be used in combination with Aqua Mix® NanoScrub® or heavier residue. Perform a test in an inconspicuous area prior to complete application. See product technical data sheets for usage and application.

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, waterbased 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.



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 | Вох |
| 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 | Вох |
| USA | PG5217T | 17 lb (7.71 kg) | #52 Tobacco Brown | Вох |
| 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 | Вох |
| 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 | Вох |
| USA | PG18517T | 17 lb (7.71 kg) | #185 New Taupe | Вох |

| 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 | Вох |
| USA | PG64617T | 17 lb (7.71 kg | #646 Coffee Bean | Box |
| USA | PG64717T | 17 lb (7.71 kg | #647 Brown Velvet | Вох |



| 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 | Вох |
| Canada | CPG64517 | 17 lb (7.71 kg) | #645 Steel Blue | Вох |
| 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.



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 <u>Aqua Mix AquaKleen</u>, <u>Aqua Mix Concentrated Tile & Stone Cleaner</u> or <u>TileLab Grout & Tile Cleaner</u>.

9 Technical Services Information

For technical assistance, contact Custom® technical services at 800-272-8786 or visit <u>custombuildingproducts.com</u>.

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

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

| Tile Size | Joint Width | | | | | |
|---|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Width x Length x Thickness | 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 ft² (8.9 m²) | 54 ft² (5 m²) | 40 ft² (3.7 m²) | 33 ft² (3.1 m²) | 27 ft² (2.5 m²) | 24 ft² (2.2 m²) |
| 2" x 2" x 1/4" (5 x 5 x .64 cm) | 181 ft² (16.8 m²) | 96 ft² (8.9 m²) | 68 ft² (6.3 m²) | 54 ft² (5.0 m²) | 40 ft² (3.7 m²) | 33 ft² (3.1 m²) |
| 3" x 3" x 1/4" (7.6 x 7.6 x .64 cm) | 266 ft² (24.7 m²) | 138 ft² (12.9 m²) | 96 ft² (8.9 m²) | 74 ft² (7 m²) | 54 ft² (5 m²) | 43 ft² (4 m²) |
| 4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm) | 372.4 ft² (34.6 m²) | 192 ft² (17.8 m²) | 131 ft² (12.2 m²) | 101 ft² (9.4 m²) | 71 ft² (6.6 m²) | 56 ft² (5.2 m²) |
| 6" x 6" x 1/4" (15.2 x 15.2 x .64 cm) | 521 ft² (48.4 m²) | 266 ft² (24.7 m²) | 181 ft² (16.8 m²) | 139 ft² 12.9 m²) | 96 ft² (8.9 m²) | 75 ft² (7.0 m²) |
| 8" x 8" x 3/8" (20.3 x 20.3 x 1 cm) | 461 ft² (42.8 m²) | 234 ft² (21.7 m²) | 158 ft² (14.7 m²) | 121 ft² (11.2 m²) | 83 ft² (7.7 m²) | 64 ft² (6 m²) |
| 12" x 12" x 3/8" (30.5 x 30.5 x 1 cm) | 688 ft² (63.9 m²) | 348 ft² (32.3 m²) | 234 ft² (21.7 m²) | 177 ft² (16.5 m²) | 121 ft² (11.2 m²) | 92 ft² (8.6 m²) |
| 16" x 16" x 3/8" (40.6 x 40.6 x 1 cm) | 915 ft² (85 m²) | 462 ft² (42.8 m²) | 310 ft² (28.8 m²) | 234 ft² (21.7 m²) | 158 ft² (14.7 m²) | 121 ft² (11.2 m²) |
| 18" x 18" x 3/8" (45.7 x 45.7 x 1 cm) | 1028 ft² (95.5 m²) | 518 ft² (48.1 m²) | 348 ft² (32.3 m²) | 262 ft² (24.4 m²) | 177 ft² (16.5 m²) | 135 ft² (12.5 m²) |
| 20" x 20" x 3/8" (50.8 x 50.8 x 1 cm) | 1142 ft² (106.1 m²) | 574 ft² (53.4 m²) | 385 ft² (35.8 m²) | 291 ft² (27 m²) | 196 ft² (18.2 m²) | 149 ft² (13.8 m²) |
| 24" x 24" x 3/8" (61 x 61 x 1 cm) | 1369 ft² (127.2 m²) | 688 ft² (63.9 m²) | 461 ft² (42.8 m²) | 348 ft² (32.3 m²) | 234 ft² (21.7 m²) | 177 ft² (16.5 m²) |
| 6" x 24" x 3/8" (15.2 x 61 x 1 cm) | 552 ft² (51.3 m²) | 279 ft² (26 m²) | 189 ft² (17.5 m²) | 143 ft² (13.3 m²) | 98 ft² (9.1 m²) | 75 ft² (7 m²) |
| 12" x 24" x 3/8" (30.5 x 61 x 1 cm) | 915 ft² (85 m²) | 461 ft² (42.8 m²) | 310 ft² (28.8 m²) | 234 ft² (21.7 m²) | 158 ft² (14.7 m²) | 121 ft² (11.2 m²) |
| 6" x 36" x 3/8" (15.2 x 91.4 x 1 cm) | 591 ft² (54.9 m²) | 299 ft² (27.8 m²) | 202 ft² (18.7 m²) | 153 ft² (14.2 m²) | 104 ft² (9.7 m²) | 80 ft² (7.4 m²) |
| 9 x 36" x 3/8" (22.9 x 91.4 x 1 cm) | 824 ft² (76.6 m²) | 416 ft² (38.6 m²) | 279 ft² (26 m²) | 211 ft² (19.6 m²) | 143 ft² (13.3 m²) | 109 ft² (10.2 m²) |
| 12" x 48" x 3/8" (30.5 x 122 x 1 cm) | 1096 ft² (101.9 m²) | 552 ft² (51.3 m²) | 370 ft² (34.4 m²) | 279 ft² (26 m²) | 189 ft² (17.5 m²) | 143 ft² (13.3 m²) |

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more tile and joint sizes, use the <u>Material Calculator</u> at CustomBuildingProducts.com or contact CUSTOM Technical Services at <u>800-282-8786</u>.

