

1. Product Name

Prism® Ultimate Performance Grout

2. Product Description

Prism® Ultimate Performance Grout sets a new standard in cement based grout technology. Prism's calcium Aluminate cement based, latex polymer-modified 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 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
- No efflorescence
- o Lightweight for superior handling
- $\circ \ \ \text{Fast setting, walkable in four hours}$
- No sealer required

Uses

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

Composition of Product

 $\mathsf{Prism}^{\circledast}$ grout is a blend of specialty cements, recycled aggregates and chemicals.

Benefits of Product in the Installation

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

Limitations to the Product

o 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 <u>Aqua Mix® Grout Release</u> or <u>Tilelab®</u> <u>SurfaceGard® Sealer</u> 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 Grout</u>.
- 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
- 6.8 lb (3.1 kg) box containing one (1) bag (15 colors in Canada Only)
- o Available in 40 standard colors. Color matching is available.

3. 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)
- o ASTM C531 Standard Test Method for Linear Shrinkage
- o ASTM C580 Standard Test method for Flexural Strength

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:

- o Up to 2 points towards MR Credit 5, Regional Materials
- o Up to 2 points towards MR Credit 4, Recycled Content
- Up to 1 point towards IEQ Credit 4.1, Low-Emitting Materials
 Adhesives & Sealants

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.

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 Aqua Mix® Non Cement Grout Haze Remover or Aqua 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 72 hours with temperature above 50° F (10° C). Refer to setting material data sheet to determine the total protection period. 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.

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.

4. Size & Availability

Location	Item Code	Size Grout Color		Package
USA	PG0917T	17 lb (7.71 #9 Natural Gray		Box
USA	PG1017T	17 lb (7.71 kg)		
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	USA PG6017T 1		#60 Charcoal	Box
USA	PG9517T	17 lb (7.71 kg)	#95 Sable Brown	Box
USA	PG10517T	0517T		Box
USA	PG11517T	1517T 17 lb (7.71 #115 Platinum		Box
USA	PG12217T		Box	
USA			Box	
USA	PG14517T	G14517T		Box
USA	PG1651/1 kg) Gray		#165 Delorean Gray	Box
USA			#172 Urban Putty	Box
USA	PG18317T	8317T 17 lb (7.71 #183 Chateau		Box
USA	PG18517T			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	Canada	CPG33317	17 lb (7.71	. kg) #333 <i>i</i>	Alabaster	Box Box
				_	Canada	CPG33517	17 lb (7.71	. kg) #335 \	Winter Gray	
USA	PG37017T	17 lb (7.71 kg)	#370 Dove Gray	Box	Canada	CPG37017	17 lb (7.71	. kg) #370 I	Dove Gray	Box
USA	PG38017T	17 lb (7.71 kg)	#380 Haystack	Box	Canada	CPG38017	17 lb (7.71	. kg) #380 I	Haystack	Box
USA	PG38117T	17 lb (7.71 kg)	#381 Bright White	Box	Canada	CPG38117	17 lb (7.71	. kg) #381 I	Bright White	Box
USA	PG38217T	17 lb (7.71 kg)	#382 Bone	Box	Canada	CPG38217	17 lb (7.71	. kg) #382 I	Bone	Box
USA	PG38617T	17 lb (7.71 kg)	#386 Oyster Gray	Box						
USA	PG40117T	17 lb (7.71 kg)	#540 Truffle	Box	Canada (CPG38617 17 I	b (7.71 kg)	#386 Oyster Gra	ay	Box
USA	PG54117T	17 lb (7.71 kg)	#541 Walnut	Box	Canada (CPG5217 17 I	b (7.71 kg)	#52 Tobacco Br	own	Box
USA	PG54217T	17 lb (7.71 kg)	#542 Graystone	Box	Canada (CPG54017 17 I	b (7.71 kg)	#540 Truffle		Box
USA	PG54317T	17 lb (7.71 kg)	#543 Driftwood	Box	Canada (CPG54117 17 I	b (7.71 kg)	#541 Walnut		Box
USA	PG54417T	17 lb (7.71 kg)	#544 Rolling Fog	Box	Canada (CPG54217 17 I	b (7.71 kg)	#542 Graystone	!	Box
USA	PG54517T	17 lb (7.71 kg)	#545 Bleached Wood	Box	Canada (CPG54317 17 I	b (7.71 kg)	#543 Driftwood		Box
USA	PG54617T	17 lb (7.71 kg)	#546 Cape Gray	Box	Canada (CPG54417 17 I	b (7.71 kg)	#544 Rolling Fo	g	Box
USA	PG64017T	17 lb (7.71 kg	#640 Arctic White	Box	Canada (CPG54517 17 I	b (7.71 kg)	#545 Bleached	Wood	Box
USA	PG64117T	17 lb (7.71 kg	#641 Cool White	Box	Canada (CPG54617 17 I	b (7.71 kg)	#546 Cape Gray	,	Box
USA	PG64217T	17 lb (7.71 kg	#642 Ash	Box	Canada (CPG5917 17 I	b (7.71 kg)	#59 Saddle Brov	wn	Box
USA	PG64317T	17 lb (7.71 kg	#642 Warm Gray	Box	Canada (CPG64017 17 I	b (7.71 kg)	#640 Arctic Whi	te	Box
USA	PG64417T	17 lb (7.71 kg	#644 Shadow	Box	Canada (CPG64117 17 I	b (7.71 kg)	#641 Cool White	e	Box
USA	PG64517T	17 lb (7.71 kg	#645 Steel Blue	Box	Canada (CPG64217 17 I	b (7.71 kg)	#642 Ash		Box
USA	PG64617T	17 lb (7.71 kg	#646 Coffee Bean	Box	Canada (CPG64317 17 I	b (7.71 kg)	#643 Warm Gra	у	Box
USA	PG64717T	17 lb (7.71 kg	#647 Brown Velvet	Box	Canada (CPG64417 17 I	b (7.71 kg)	#644 Shadow		Box
					Canada (CPG64517 17 I	b (7.71 kg)	#645 Steel Blue		Box
Canad	da CPG0917	17 lb (7.71 kg)	#09 Natural Gray	Box	Canada (CPG64617 17 I	b (7.71 kg)	#646 Coffee Bea	an	Box
Canad	da CPG1017	17 lb (7.71 kg)	#10 Antique White	Box	Canada (CPG64717 17 I	b (7.71 kg)	#647 Brown Vel	vet	Box
Canad	da CPG1051	7 17 lb (7.71 kg)	#105 Earth	Box	Canada (CPG6017 17	b (7.71 kg)	#60 Charcoal		Box
Canad	da CPG1117	17 lb (7.71 kg)	#11 Snow White	Box	Canada	CDC0E17 17 1	h (7.71 km)	#05 Cabla Draw	_	Box
Canad	da CPG1151	7 17 lb (7.71 kg)	#115 Platinum	Box	Canada C	.PG951/ 1/1	D (7.71 кg)	#95 Sable Brow	n	
Canad	da CPG1221	7 17 lb (7.71 kg)	#122 Linen	Box	Canada	#00 Notus	ol Crov	CDC0069.4	6 0 lb /2 1 kg)	Box
Canad	da CPG1351	7 17 lb (7.71 kg)	#135 Mushroom	Box	Canada	#09 Natura	ат Стау	CPG0968-4	6.8 lb (3.1 kg)	
Canad	da CPG1451	7 17 lb (7.71 kg)	#145 Light Smoke	Box	Canada	#11 Snow	White	CPG1168-4	6.8 lb (3.1 kg)	Box
Canad	da CPG1651	7 17 lb (7.71 kg)	#165 Delorean Gray	Box	Canada	#19 Pewte	r	CPG1968-4	6.8 lb (3.1 kg)	Box
Canad	da CPG1721	7 17 lb (7.71 kg)	#172 Urban Putty	Box						Box
Canad	da CPG1831	7 17 lb (7.71 kg)	#183 Chateau	Box	Canada	#60 Charco	oal 	CPG6068-4	6.8 lb (3.1 kg)	Box
Canad	da CPG1851	7 17 lb (7.71 kg)	#185 New Taupe	Box	Canada	#115 Platir	num	CPG11568-4	6.8 lb (3.1 kg)	Box
Canad	da CPG1861	7 17 lb (7.71 kg)	#186 Khaki	Box	Canada	#122 Liner	n	CPG12268-4	6.8 lb (3.1 kg)	Вох
Canad	da CPG1917	17 lb (7.71 kg)	#19 Pewter	Box	Cariaua	# 122 LINE	· 	C1 C12200-4	5.0 ib (5.1 kg)	
Canad	da CPG2217	17 lb (7.71 kg)	#22 Sahara Tan	Вох	Canada	#165 Delo	rean Gray	CPG16568-4	6.8 lb (3.1 kg)	Box

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Canada	#380 Haystack	CPG38068-4	6.8 lb (3.1 kg)	Box
Canada	#381 Bright White	CPG38168-4	6.8 lb (3.1 kg)	Box
Canada	#382 Bone	CPG38268-4	6.8 lb (3.1 kg)	Box
Canada	#386 Oyster Gray	CPG38668-4	6.8 lb (3.1 kg)	Box
Canada	#544 Rolling Fog	CPG54468-4	6.8 lb (3.1 kg)	Box
Canada	#640 Arctic White	CPG64068-4	6.8 lb (3.1 kg)	Box
Canada	#646 Coffee Bean	CPG64668-4	6.8 lb (3.1 kg)	Box
Canada	#647 Brown Velvet	CPG64768-4	6.8 lb (3.1 kg)	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.

5. 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 custom building products.com

6. Product Maintenance

Properly installed product requires no special maintenance.

7. Technical Services Information

For technical assistance, contact Custom® Building Products.

8. 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



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>.

