

Salttilo Grout Mix

1 Product Name

Salttilo Grout Mix

2 Manufacturer

Custom Building Products
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3 Product Description

A pre-blended mixture of Portland cement, silica sand and pigments which eliminates the measuring and guesswork of site mixing or combining additional sand to conventional Portland cement grouts to compensate for wide grout joints used when setting terra-cotta, Saltillo or quarry tile.

Key Features

- Use with quarry, Saltillo and other natural clay pavers
- Pre-blended mix for wide joints

Suitable Tile Types

- Semi-vitreous or non-vitreous tile
- Brick and stone veneer
- Cement-based precast terrazzo
- Natural stone tile

Composition of Product

Salttilo Grout is a dry, Portland cement based grout with silica sand, inorganic aggregates and chemicals.

Benefits of Product in the Installation

- For joints from 1/2"- 1-1/4" (13-32 mm) wide
- Use with Saltillo, quarry and clay pavers
- Pre-blended mix for wide joints

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, marble or stone tiles can be scratched or damaged by the silica aggregate filler. Perform a test on a small area prior to use. [Polyblend® Non-Sanded 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 [Tilelab® SurfaceGard® Sealer](#) or [Aqua Mix® Grout Release](#) to prevent 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 cleanup.
- 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 [Polyblend® Ceramic Tile Caulk](#).

Packaging

- 50 lb (22.68 kg) bag

4 Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.10 and A118.6 of the American National Standards for the Installation of Ceramic Tile ASTM International (ASTM)



Saltillo Grout Mix

- 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

Saltillo Grout meets or exceeds ANSI A118.6 standards.

Technical Chart

| Property | Test Method | Requirement | Typical Results |
|-----------------------------|-----------------------|-------------|-----------------------------|
| Pot Life | | | 1-2 Hours |
| Shrinkage | A118.6 Section 4.3 | < 0.20% | <0.8% |
| Water Absorption | A118.6 Section 4.4 | < 10% | <8% |
| 28 Day Compressive Strength | A118.6 Section 4.5 | > 3000 psi | 4650 psi (327 kg/cm sq.) |
| Tensile Strength | A118.6 Section 4.6 | > 300 psi | 423 psi (29.7 kg/cm sq.) |
| Flexural Strength | A118.6 Section 4.7 | > 500 psi | 990 psi (69.6 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 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.

Unglazed Mexican Saltillo pavers should have a grout release such as [TileLab® SurfaceGard® Sealer](#) or coating such as [TileLab® Matte Sealer & Finish](#) applied prior to grouting to minimize staining the surface of the tile. If tiles are to be colored with a stain, apply the colorant following manufacturer's directions, then coat with grout release after colorant has dried. Due to the porous nature of Saltillo pavers, several coats of grout release may be necessary. Test in an inconspicuous area to determine results.

Mixing Ratios

Mix 4 quarts (3.78 L) clean water to 50 lb (22.68 kg) bag.

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 10 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.

For increased strength, Thin-Set Mortar Admix can be substituted for half of the water requirement and is recommended when grouting over a plywood substrate or grouting porous-bodied Saltillo tile. Let stand 10 minutes, remix before use. Periodic mixing during application keeps the grout workable but do not add additional water or additive once mixed as this weakens the material. Consistency of mixing ratio between batches helps to maintain color shade uniformity. Discard grout when too stiff to work, about 2 hours.

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

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

Cleaning of equipment

Clean tools and hands with water before the material dries.



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Salttilo Grout Mix

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

| Item Code | Size | Grout | Package |
|-----------|------------------|---------------------|---------|
| SLGXXX50 | 50 lb (22.68 kg) | 48 colors available | Bag |

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 [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

Polyblend® Ceramic Tile Caulk

Commercial 100% Silicone Sealant

Thin-Set & Mortar Admix

TileLab® SurfaceGard® Sealer



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Coverage

For 50 lb. bag of Saltillo Grout Mix in ft² (m²)

| Tile Size | Joint Width | | | |
|---------------------------------------|--|--|--|--|
| | 1/2" (13 mm) | 3/4" (19 mm) | 1" (25 mm) | 1-1/4" (32 mm) |
| Width x Length x Thickness | | | | |
| 6" x 6" x 1/4" (15.2 x 15.2 x .64 cm) | 150 ft ² (13.9 m ²) | 108 ft ² (10 m ²) | 87 ft ² (8.1 m ²) | 75 ft ² (6.9 m ²) |
| 8" x 8" x 3/8" (15.2 x 15.2 x 1 cm) | 128 ft ² (11.9 m ²) | 90 ft ² (8.4 m ²) | 72 ft ² (6.7 m ²) | 61 ft ² (5.6 m ²) |
| 12" x 12" x 3/8" (30.5 x 30.5 x 1 cm) | 185 ft ² (17.2 m ²) | 128 ft ² (11.9 m ²) | 100 ft ² (9.3 m ²) | 83 ft ² (7.7 m ²) |
| 16" x 16" x 3/8" (40.6 x 40.6 x 1 cm) | 241 ft ² (22.4 m ²) | 166 ft ² (15.4 m ²) | 128 ft ² (11.9 m ²) | 106 ft ² (9.8 m ²) |
| 18" x 18" x 3/8" (45.7 x 45.7 x 1 cm) | 270 ft ² (25.1 m ²) | 185 ft ² (17.2 m ²) | 142 ft ² (13.2 m ²) | 117 ft ² (10.9 m ²) |
| 20" x 20" x 3/8" (50.8 x 50.8 x 1 cm) | 298 ft ² (27.7 m ²) | 204 ft ² (18.9 m ²) | 156 ft ² (14.5 m ²) | 128 ft ² (11.9 m ²) |
| 24" x 24" x 3/8" (61 x 61 x 1 cm) | 355 ft ² (33 m ²) | 241 ft ² (22.4 m ²) | 185 ft ² (17.2 m ²) | 151 ft ² (14 m ²) |
| 6" x 24" x 3/8" (15.2 x 61 x 1 cm) | 151 ft ² (14 m ²) | 105 ft ² (9.8 m ²) | 83 ft ² (7.7 m ²) | 69 ft ² (6.4 m ²) |
| 12" x 24" x 3/8" (30.5 x 61 x 1 cm) | 241 ft ² (22.4 m ²) | 166 ft ² (15.4 m ²) | 128 ft ² (11.9 m ²) | 105 ft ² (9.8 m ²) |
| 6" x 36" x 3/8" (15.2 x 91.4 x 1 cm) | 160 ft ² (14.9 m ²) | 112 ft ² (10.4 m ²) | 87 ft ² (8.1 m ²) | 73 ft ² (6.8 m ²) |
| 9" x 36" x 3/8" (22.9 x 91.4 x 1 cm) | 219 ft ² (20.3 m ²) | 151 ft ² (14 m ²) | 117 ft ² (10.8 m ²) | 96 ft ² (8.9 m ²) |
| 12" x 48" x 3/8" (30.5 x 122 x 1 cm) | 287 ft ² (26.6 m ²) | 196 ft ² (18.2 m ²) | 151 ft ² (14 m ²) | 123 ft ² (11.5 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).



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