



TECHNICAL DATA SHEET

PRODUCT DESCRIPTION: Translucent Grout for Glass Tile

Glass tile manufacturers have always desired a translucent grout that compliments their products. Cement and epoxy grouts can detract from a glass tile installation's overall appearance by creating a harsh line that clashes with the tile's natural beauty. StarGlass™ Grout, however, provides limitless design possibilities and actually enhances the look of glass tile by offering never-before-seen color and visual possibilities.

StarGlass Grout is a PRE-MIXED, urethane-based grout especially designed for glass tile. Other grouts contain cement, sand and other light-absorbing materials. StarGlass Grout, on the other hand, contains tiny glass beads and a translucent urethane binder that actually allow light to pass through the grout itself, creating a unique, three-dimensional effect and a stunning reflective appearance. StarGlass also offers the traditional benefits of Urethane grout, including:

FEATURES AND BENEFITS

- Pre-mixed, ready to use
- Excellent chemical, stain and mildew resistance
- Semi-flexible, low shrinkage and high crack resistance
- No color fading, streaking or shading – Even when wet!
- Fast, easy clean-up when compared to epoxy and cement grouts
- Innovative, proprietary coloring system
- Excess product can be saved and used later
- UV stable colors (non-yellowing)
- Self-sealing – no sealing required
- Non-sag formula for vertical surfaces
- Free of BPA (bisphenol-A) found in epoxy grouts
- Dust-free mixing
- Fast, easy installation - installs up to 50% faster than other grouts
- Superior to cement grout
- Contributes to USGBC LEED Credits: MR 4.1 & 4.2 (Recycled Content), MR 5.1 & 5.2 (Regional Materials), and EQ, 4.1 (Low-Emitting Materials).
- Contains over 80% post-consumer recycled content.

PRODUCT USES

StarGlass Grout can be used on vertical or horizontal surfaces in a variety of interior and exterior installations of ceramic, porcelain, glass and natural stone tiles in a range of grout joint widths.

INSTALLATION

Read and understand Technical Data Sheet and Material Safety Data Sheet completely before beginning installation. Follow applicable ANSI, TCNA and NTCA installation standards. Always do a test area to ensure product satisfaction, including adhesion to substrate, and/or to become familiar with proper application techniques prior to use.

StarGlass Grout requires different installation techniques for successful product use. Please read the following instructions carefully.

Preparation for Grouting:

- **DO NOT add any water, liquid, or other material to StarGlass Grout! This will cause grout failure and void all warranties.**
- A milky, white liquid may be present on the surface of the grout when opened. This is from normal settling during shipment. Only use a margin trowel to bring grout into suspension. Use of a drill mixer is not recommended as it will introduce excessive air into the product and cause grout sagging on vertical applications, a reduction of color uniformity, and/or other performance issues. Continue to mix with margin trowel throughout the grouting process.
- Ensure tile is firmly set and mortar is completely dry (always follow manufacturer's instructions) before grouting. Remove all spacers, water, debris and adhesive from tile joints.
- For best results, surface of tile should be at room temperature (70°F to 75°F). Urethane materials are affected by temperature and humidity variations. Cool temperatures and/or high humidity will slow cure time.
- To facilitate cleaning, pre-seal all porous tile and natural stone before grouting.
- For glass tile, polished marble, stone and other soft surfaces, test grout on a small area to ensure compatibility.
- Make sure grout joints are clean, dry, and free from solvents and residue before grouting.

Application:

- Spread grout using a stone float. Work the grout diagonally across the joints, packing them full.
- Remove excess grout from the tile surface, pulling the edge of the float diagonally across the joint to prevent grout removal.

Grout Cleaning:

For best results, remove grout haze AS YOU WORK, particularly in warm or dry climates. If working alone, only grout as far as you can reach (arm's length) before initial cleaning. If working as a team, one person should grout, with the other(s) cleaning immediately behind the first person.

- Rinse sponge in water and wring out completely. Since urethane grout requires very little water during cleanup, make sure that the sponge is wrung nearly dry. Wipe lightly, leaving sponge flat on the tile surface to prevent grout removal from joints. Excessive water used during cleanup can dilute the urethane binder and cause curing issues that may lead to grout failure.
- Wipe up spilled water immediately. Do not allow water to sit on grout surface or in ungrouted joints.
- Change water mixture after each 100 square feet, for each new bucket of grout, or when dirty.
- Check work as you clean. Repair any low spots with additional grout. Unlike other grouts, DO NOT over wash.
- Allow cleaned areas to dry, and then inspect tile / stone surface. If a second cleaning is necessary, WAIT 3 hours in low humidity environments and 6 hours in high humidity environments, making sure grout is cured enough to withstand light finger pressure without losing form, then spray BLAZE™ Urethane Grout Cleaner on a white scrubby Doodlebug™ cleaning pad (do not flood the surface with cleaner). Rub the cleaning pad lightly over any remaining urethane haze, allow it to dwell on the tile / stone surface for at least 60 seconds (excessive haze may require direct spray on surface and/or more dwell time) to ensure sufficient penetration. Use a damp sponge and clean water to remove the film and cleaner. Finish by drying the tile surface with a clean towel or cloth. Contact StarQuartz if a persistent haze exists.

Installation Requirements:

- Ensure that joints are well packed. Smaller joints may require extra effort. Failure to fully pack joints may lead to slight discoloration or mottling and delay full color consistency for up to two weeks.
- To speed up installation, or for quarry and other porous tile and/or outdoor applications, pre-wet tile surface using clean water with a damp sponge prior to spreading grout, being careful not to leave standing water in the grout joints.
- Maintain temperature above 40°F (5°C) during installation and curing.

CURING

- Protect finished surface from light traffic for at least 24 hours at 70°F (21°C). Heavy foot traffic requires 72 hours at 70°F and 50% relative humidity. See Limitations/Cautions below for further curing requirements.
- If needed, cover ONLY with kraft or breathable paper after initial 24-hour curing period.
- Full cure depends on grout depth. Normal cure of a ¼" grout joint with a 3/8" thick tile is 28 days.

SHOWERS / STEAM SHOWERS / WET APPLICATIONS

- Use an approved waterproof sealer for mud bed applications and follow manufacturer's recommendations for sealer installation. For liquid-applied waterproofing materials, apply to within 1" of any drains to prevent weep hole blockage. The use of pre-sloped, waterproof trays (instead of mud beds) is highly recommended.
- Shower, steam shower, pool, fountain and wet area installations must be protected from moisture and allowed to cure for 7 days before use.

LIMITATIONS/CAUTIONS

- Do not apply or clean up this product like traditional cement-based or epoxy grouts; StarGlass Grout is a new technology that requires a simpler and easier application and clean-up process.
- Follow manufacturers' instructions for all other setting materials, waterproofing, anti-fracture membranes, etc., used on the job.
- Minimum recommended grout joint width is 1/16".
- Maximum recommended grout joint width is 1/2" for horizontal and 1/4" for vertical applications.
- Ensure that grout joints are fully packed, especially in tight and irregular joints. Take special care in all wet and outdoor applications.
- Do not use as a setting mortar.
- Not for use in heavy industrial applications (ie: chemical plants), in areas subjected to harsh or persistent chemicals, or areas exposed to very aggressive cleaning routines such as steam cleaning or pressure washing.
- StarGlass Grout is not a replacement for a waterproofing membrane. When a waterproofing system solution is required, please contact StarQuartz Technical Service.
- Protect grout from staining agents and chemicals during the cure process.
- Grouting when tile surface is above 90°F (32°C) is not recommended. Cool tile surface with damp sponge if tile surface is above 90°F (32°C). Be careful not to add excessive water during the tile cooling process.
- Do not use vinegar or acid solutions for clean-up; this could damage uncured grout.
- Always use protective clothing (gloves and eye protection) when working with grout.
- Prior to re-grouting applications, remove 1/8" of old grout and remove any surface contaminants. Be sure to rinse any residual solvent off grout joints, then allow joints to completely dry before re-grouting.

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- Do not use for commercial or wet environment re-grouting installations, including showers, steam showers, and outdoor applications.
- Seal porous tile and stone surfaces with a water-based sealer, including the sides of the tile and stone, prior to grouting with StarGlass Grout.
- Outdoor installations must be protected from moisture (rain) for 7 days. If rain is forecast within 7 days, protect by tenting the grouted area (at least 1 foot above surface).
- Not for use in hot tubs.
- Wait 7 days before rigorously cleaning tile and grout surface.
- Wait 7 days prior to exposing grout to full submersion.
- Use care on soft, highly polished surfaces to avoid scratching. Test a small area. Use of a sealer is always recommended on polished marble, stone, slate and other natural, porous tiles.
- Use of enzymatic floor cleaners will void all warranties.
- Do not ingest. Keep out of the reach of children.
- **Do not use StarCure® Urethane Grout Cure Accelerator with StarGlass Grout.**
- Do not use solvent-based adhesives or sealers with StarGlass Grout.
- Protect grout from freezing. Do not grout outdoors or in unheated areas when temperatures are expected to be below 40°F (5°C) within 3 days. If product freezes, return to room temperature and use as directed.
- For Chemical Emergency call CHEMTREC, 24 hours, (800) 424-9300 in North America, (703) 527-3887 International (collect).
- For more information, consult the MSDS for this product.

AVAILABILITY AND COST

StarGlass Grout is available at authorized resellers throughout the U.S. and Canada. Contact StarQuartz Industries, Inc. at (866) 220-4500 or info@StarQuartz.com for more information.

MAINTENANCE

StarGlass Grout requires occasional cleaning with water and common grout cleaners. For best stain resistance, always clean up spills immediately.

SHELF LIFE

StarGlass Grout is guaranteed to remain suitable for use up to a period of two (2) years if stored unopened at temperatures between 32°F (0°C) and 100°F (38°C). After opening, StarGlass Grout can be saved for reuse if properly resealed in original container (always wipe the pail lip clean prior to resealing to ensure proper seal is achieved with the Vapor-Lock lid). If product freezes, return to room temperature and use as directed.

PACKAGING

Available in 9-lb and 18-lb. units

WARRANTY

- Visit to www.StarQuartz.com to see our complete warranty.

APPLICABLE STANDARD

StarGlass Grout is a revolutionary new technology which employs state-of-the-art urethane chemistry. As yet, there is no current ANSI or ASTM standard for this technology (ANSI 118.3 pertains only to epoxy grout products); however, for comparative purposes, physical and chemical properties are listed below. Epoxy grouts are hard, brittle and lack flexibility. StarGlass Grout is designed to have the perfect balance of physical properties in order to provide flexibility, strength and adhesion to a variety of materials, making it the best choice for a wide variety of applications. Specifications are subject to change without notice.

Working Properties	
Description	Time Required*
Working Time	3 hrs
Tack-Free Time	8 hrs
Ready for light foot traffic	24 hrs
Ready for heavy foot traffic	72 hrs
Stain resistant (food, cleaners, etc.)	3 days
Showers, Outdoors, Pools, Fountains and Wet Area Installations	7 days

* Results are typical, but reflect testing procedures employed. Actual results may vary due to particular environmental conditions and other factors (e.g. type of setting material used).

Typical Properties	
Description	Typical Results
Water Cleanability	Pass
Initial Set	>2 hrs.
Service Strength	Pass
Vertical Joint Sag	Pass
ASTM C267 Chemical	Pass
Compressive Strength	>3,500 psi
Linear Shrinkage	<0.25%
Water Absorption	<1%
Color	15 available

Results shown are typical and reflect test procedures used by the Tile Council of North America (TCNA) for ANSI 118.3 and 118.3 modified. Actual field performance will depend on installation methods, site conditions and other environmental factors.

COVERAGE CHART (SQ. FT)

18-Lb Unit Coverage

Tile Size (inches)	Joint Width					
	1/16"	1/8"	3/16"	1/4"	3/8"	1/2"
1" x 1" x 1/4"	67	36	-	-	-	-
2" x 2" x 1/4"	128	67	-	-	-	-
4 1/4" x 4 1/4" x 5/16"	213	109	74	57	39	31
4" x 8" x 1/2"	166	85	57	44	30	23
6" x 6" x 1/2"	187	95	64	49	34	26
8" x 8" x 3/8"	330	167	113	85	58	45
12" x 12" x 3/8"	494	249	167	126	85	65
13" x 13" x 3/8"	534	269	181	137	92	70
16" x 16" x 3/8"	657	330	222	167	113	85
18" x 18" x 3/8"	739	371	249	188	126	96
12" x 24" x 3/8"	657	331	222	167	113	86
24" x 24" x 3/8"	983	494	330	249	167	126

9-lb Unit Coverage

Tile Size (inches)	Joint Width					
	1/16"	1/8"	3/16"	1/4"	3/8"	1/2"
1" x 1" x 1/4"	34	18	-	-	-	-
2" x 2" x 1/4"	64	34	-	-	-	-
4 1/4" x 4 1/4" x 5/16"	107	55	37	29	20	16
4" x 8" x 1/2"	83	43	29	22	15	12
6" x 6" x 1/2"	94	47	32	25	17	13
8" x 8" x 3/8"	165	84	57	43	29	23
12" x 12" x 3/8"	247	125	84	63	43	33
13" x 13" x 3/8"	267	135	91	68	46	35
16" x 16" x 3/8"	329	165	111	84	57	43
18" x 18" x 3/8"	370	186	125	94	63	48
12" x 24" x 3/8"	329	166	111	84	57	43
24" x 24" x 3/8"	492	247	165	125	84	63

 **StarGlass™** The Future of Grout is Clear

Translucent • 3-Dimensional • Reflective

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|---|-----------------------|
|  | 600 Diamond |
|  | 610 Opal |
|  | 620 Topaz |
|  | 621 Amber |
|  | 622 Aventurine |
|  | 630 Palm Wood |
|  | 640 Citrine |
|  | 650 Jade |
|  | 660 Aquamarine |
|  | 670 Moonstone |
|  | 671 Hematite |
|  | 680 Onyx |
| Metallic Colors | |
|  | 700 Silver |
|  | 710 Bronze |
|  | 720 Copper |