

INSTALLATION INSTRUCTIONS FOR:

G3® Commercial Surface



COVERAGE: up to

10 Ft²

Per Gallon

TYPICAL USES:

- Residential paths & patios
- Landscaping
- Planter beds

I. BENEFITS & COVERAGE

1. TechniSoil G3® Commercial Surface is a commercial grade stabilizer for durable, dust-free surfaces using decomposed granite or crushed stone materials. This eco-friendly liquid stabilizer bonds crushed aggregate fines for use with walkways, patios, and lightweight RV storage. TechniSoil G3® Commercial Surface lends efficiency and innovation to natural surfacing technology.
 - Easy to apply using standard equipment
 - Eco-friendly, safe for use around animals & plants
 - Stabilized areas help control dust, insects, weeds, & erosion
 - Low-maintenance
2. G3® Commercial Surface will cover approximately 10ft²/gallon.
 - See Coverage chart for more information

II. TOOLS REQUIRED:

- Shovel, pick, digging equipment
- Wheelbarrow
- Bow rake and/or grade rake
- Screed
- Watering can with a shower head or pressurized sprayer
- Masonry trowel
- Vibratory plate compactor
- Hand tamper
- If installing edge restraints, additional tools may be required

III. MATERIAL SELECTION RECOMMENDATIONS

1. G3-CS works best with 1/2" - 3/4" minus crushed stone, including but not limited to decomposed granite (DG), crushed limestone, & granite screenings.
2. Aggregates with a moisture content of less than 3% are recommended.

IV. COVERAGE

1. G3® Commercial Surface will cover approximately 10ft²/gallon on average using three applications per project.
 - First application will require 20ft²/gallon to fully saturate aggregate.
 - Second application will require 30ft²/gallon as a topcoat.
 - Third application will require 40ft²/gallon as a final topcoat.

Recommended Installation Rates:	Installation Phase:	Coverage:
20 ft ² per gallon	Pour-In (Pre-compaction)	10 ft ² per gallon
30 ft ² per gallon	Topcoat (Post-compaction)	
40 ft ² per gallon	Topcoat (Post-compaction)	

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V. INSTALLATION RECOMMENDATIONS

1. Consider complimentary weather conditions before, during, and after any G3-CS application
 - Do not install G3-CS less than 48 hours before or after rainfall
 - G3-CS should only be installed when the outside temperature is 55° F and rising
 - Avoid temperatures below freezing or above 100° F for any phase of G3-CS installation or storage
2. Disable any irrigation systems in treated areas during application and curing phases.

VI. APPLICATION GUIDELINES:

1. Personal protective equipment (PPE) is recommended for mixing and application
 - Gloves
 - Safety glasses
2. Project planning
 - Always consider proper slope and finished grade of a G3-CS project to allow for proper drainage and runoff, as well as ease of use with adjacent structures or landscaping.
 - For light weight paths and patios, use marker paint to outline the project areas.
 - Calculate the square footage of the project area to determine material quantities needed for all aspects of the project.
 - Consider methods for excavation and removal of native soil or existing structures, as well as transportation, delivery, and installation of new materials.
3. Prepare subgrade
 - Excavate project area accordingly. Considering the subbase layer and crushed stone mix layer, it is recommended to excavate the subgrade approximately 4" - 6" below finish grade.
 - Use vibratory plate compactor to compact native subgrade in 3 - 4 passes, or as needed for adequate compaction.
4. Edge restraints are recommended for best results and optimal stability, but not required. Edge restraints can greatly reduce degradation of edges caused by foot traffic or otherwise. If project does not call for installation of edge restraints, proper compaction of edges is required, typically using a hand tamp. Some common examples of edge restraints used in this capacity are;
 - Concrete landscape curbing
 - Bender board
 - Plastic or aluminum edging
 - Pressure treated lumber
5. Install subbase
 - Be sure to consider proper slope when constructing subbase to allow for proper water runoff. Do not slope a surface towards structures like houses, sheds, pools, or otherwise without considering proper drainage channels or runoff issues.
 - Subgrade should consist of at least 2" - 4" of compacted 3/8" - 3/4" minus structural base rock or adequate crushed stone mix for subgrade construction to optimal load bearing support for the G3 stabilized layer.
 - Use vibratory plate compactor to compact subgrade 3 - 4 passes, or as needed for adequate compaction. If subbase material is dry, a light amount of water may be needed for proper compaction.

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VI. APPLICATION GUIDELINES:

6. Install crushed stone mix layer per Section III above (Material Selection Recommendations).
 - Install 2" of qualified crushed stone mix material and grade consistently into place using a rake and/or screed.
 - **DO NOT COMPACT material before G3-CS has been applied!** For best results and proper absorption of G3-CS, the crushed stone mix material should only be graded into place before pouring liquid stabilizer in.
 - The material should be graded approximately 1/2" - 3/4" above the planned finish grade to allow for proper compaction. Typically, a crushed stone mix will reduce by 30% of its overall graded height after compaction. Considering this, 2" of material will compact to a final depth of approximately 1.5".
 - Consider slope during installation of material. Proper finished grade slope or crowning of the surface will ensure adequate runoff for drainage purposes.
 - Apply TechniSoil G3-CS to surface area at a rate of 20ft²/gallon using a watering can, pressurized sprayer or equivalent.
 - For areas under 1500ft², a watering can with a shower head works best.
7. Apply TechniSoil G3-CS
 - Apply G3-CS to graded material at a rate of 20ft²/gallon using a standard watering can with shower head or a pressurized handheld or backpack sprayer. For larger applications, electric, high-capacity sprayers may be used.
- Allow 45 - 90 minutes for G3-CS to fully absorb into the aggregate. Cool, overcast weather and/or shading can increase absorption time. If after 90 minutes the surface is still saturated or appears muddy, wait an additional 15 - 30 minutes to allow G3-CS to fully absorb before compaction.
- Proper compaction may not be achieved if material is too saturated and can create aesthetic blemishes.
8. Compact surface
 - After G3-CS is fully absorbed into material, compact using a vibratory plate compactor. Make 4 - 6 longitudinal passes to fully compact surface.
 - Use a hand tamper in areas that cannot be reached by the plate compactor.
 - If the surface looks smeared or sticks to the bottom of the compactor, wait an additional 20 - 30 minutes before attempting to compact.
 - If cosmetic repairs are required, use a hand tamp and/or common masonry trowel to make adjustments as needed.
9. Apply first TechniSoil G3-CS Topcoat
 - Apply the first topcoat 12 - 24 hours after the first application or once the surface has completely dried at a rate of 30ft²/gallon.
 - Allow 24 - 72 hours to fully cure.
10. Apply second TechniSoil G3-CS Topcoat
 - Apply the first topcoat 12 - 24 hours after the first application or once the surface has completely dried at a rate of 40ft²/gallon.
 - After the 3rd coat is applied the curing process begins. In optimal conditions the surface will cure within 24 - 72 hours.

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VI. APPLICATION GUIDELINES:

11. Clean all tools immediately after use by simply rinsing tools with water. Use a soft bristle brush and water to remove any clogs in the sprayer.

VII. STORAGE:

1. Store G3-CS out of direct sunlight in areas with a temperature range above freezing and below 100° F.

VIII. MAINTENANCE AND REPAIR:

1. Treated areas should withstand normal conditions for 12 - 24 months before a maintenance coat is needed.
2. To rejuvenate and increase the life-span of the surface apply a maintenance coat at approximately 50ft²/gallon.
3. If surface has been damaged, make any repairs to the surface before applying a maintenance coat.
4. To repair a section of G3-CS, place the appropriate amount of crushed stone in a 5-gallon bucket and add enough G3-CS to make a consistent mixture of aggregate chips and stone dust.
5. Mix aggregate and G3-CS with a dowel or paint stirrer and apply the mixture to the repair area using a masonry trowel or equivalent. Smooth the material to grade. Use a hand tamper to compact into place.
6. Approximately 6 - 24 hours after repairing the surface, pour or spray a light coating of G3-CS at 50ft²/gallon over the repaired area. Cure time is within 24 - 72 hours or when the surface is dry and solid.

IX. WARRANTY

TechniSoil Global, Inc. warrants this product to be free from defects. Where permitted by law, TechniSoil makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. The purchaser shall be responsible to orchestrate their own tests to determine the suitability of this product for their particular purpose. TechniSoil's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which product proven to be defective has been applied. Acceptance and use of this product absolves TechniSoil from any other liability, from any and all sources, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of TechniSoil, its distributors or dealers, independent contractors, clients or end-users of any kind.