



G3® Commercial Surface



COVERAGE up to:

10 Ft²

Per Gallon

(See coverage rates in Section IV)

TYPICAL USES:

- Light traffic paths & patios
- Landscaping
- Planter beds
- Erosion Control

Install guidelines and application rates may vary. If product does not match bottle image at left, please contact manufacturer technical support at 877-356-2250.

I. Features & Benefits

TechniSoil G3® Commercial Surface (G3-CS) is a commercial grade liquid polymer stabilizer for durable, dust-free surfaces using decomposed granite (DG) or crushed stone materials. This eco-friendly stabilizer bonds crushed aggregates and fines to create walkways and patios. TechniSoil G3® Commercial Surface lends efficiency and innovation to natural surfacing technology.

- Reduces tracking of loose materials
- Improves surface stability
- Easy to apply using standard equipment
- Minimizes dust, weeds, and erosion
- Low-maintenance
- Eco-friendly

II. Tool Recommendations:

- Shovel, pick, digging equipment
- Wheelbarrow
- Bow rake and/or grade rake
- Screed
- Shower head watering can or pressurized sprayer
- Masonry trowel
- Vibratory plate compactor
- Hand tamper
- Additional tools may be required for edge restraints

III. Material Recommendations:

G3-CS works best with 3/8" minus to 1/2" minus crushed stone mixes, including but not limited to decomposed granite (DG), crushed limestone, & granite screenings.

A linear gradation of angular crushed rocks to fines without any dirt, clay, or sand is strongly recommended. Aggregates with a moisture content of less than 3% are recommended.

IV. Coverage

G3-CS will cover 10ft²/gallon on average using two applications per project.

- 1st application will require 20ft²/gallon to fully saturate aggregate before compaction.
- 2nd application will require 30ft²/gallon as a topcoat.
- 3rd application requires 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)	



V. Installation Recommendations

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 55° or above 90° F for any phase of G3-CS installation or storage.

VI. New Project Application Guidelines

Personal protective equipment (PPE) is recommended for mixing and application

- Gloves
- Safety glasses

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.

Prepare subgrade

- Excavate project area accordingly. Considering the subbase layer and crushed stone mix layer, it is recommended to excavate subgrade approximately 4"- 6" below finish grade.
- Weed or landscape fabric is not recommended, as it can trap moisture below the surface layer.

- Use vibratory plate compactor to compact native subgrade in 3 - 4 passes, or as needed for adequate compaction.

Edge restraints

- Edge restraints are recommended for best results, optimal stability, and can greatly reduce degradation of edges caused by foot traffic or otherwise.
- Edge restraints should not be higher than surface layer finish grade.
- 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

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 provide 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. New Project Application Guidelines (continued)

Install crushed stone mix layer per Section III above (Material Selection Recommendations).

- Install up to 2" of qualified crushed stone mix material and grade consistently into place using a rake and/or screed. Installing more than a 2" depth of surface layer material can ultimately reduce load bearing strength.
- **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

- Apply G3-CS to graded material at a rate of 20ft²/gallon using a standard watering can with shower head or a pressurized hand-held 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.
- Do not allow G3-PS liquid to completely dry before compacting, as this will adversely affect the overall structural and cross-linking strength.

Compact surface

- After G3-CS is fully absorbed into material, compact surface layer to 95% or greater compaction using a vibratory plate compactor (typically 3 - 4 longitudinal passes).
- 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.

Apply first TechniSoil G3-CS Topcoat

- Apply the first topcoat 12 - 24 hours after the initial application or once the surface has completely dried, at a rate of 30ft²/gallon.

Apply second TechniSoil G3-CS Topcoat

- Apply the second topcoat 12 - 24 hours after the first topcoat or once the surface has completely dried at a rate of 40ft²/gallon.
- Surface is completely dry and ready to use when it is hard to the touch.
- Allow 24 - 72 hours to fully cure.

Clean all tools

- Immediately after use, clean tools by simply rinsing tools with water and a soft bristle brush.

VII. Existing Project Application Guidelines

Before treating an existing project, carefully consider the following;

- Surface layer material gradation, compaction, depth, and age
- Subbase construction
- Edge restraint construction
- Previous modifications of surface layer materials

If assessment of the previously stated variables coincides with our 'New Project' guidelines, then proceed to next step.

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VII. Existing Project Application Guidelines

(continued)

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- If assessment reveals issues that may adversely affect the success rate of installation, then it is recommended to renovate the project accordingly.
 - Scarify upper 1" - 1.5" of surface using a tiller or rake. Surface layer material should be broken apart as close to its original gradation as possible. Clumped materials or improper separation can result in poor stabilization and compaction.
 - Amend surface layer material with additional material as needed to achieve proper slope, grade, crown, and/or height. **DO NOT COMPACT.**
 - Refer to recommended application guidelines.

VIII. Storage

Store G3-CS out of direct sunlight in areas with a temperature range of 55° - 90° F.

IX. Maintenance

Treated areas should withstand normal conditions for 12 - 24 months before a maintenance coat is needed.

To rejuvenate and increase the life-span of the surface apply a maintenance coat at approximately 80ft²/gallon.

If surface has been damaged, make any repairs to the surface before applying a maintenance coat.

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.

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.

Approximately 6 - 24 hours after repairing the surface, pour or spray a light coating of G3-CS at 40ft² /gallon over the repaired area. Cure time is within 24-72 hours or when the surface is dry and solid.

X. 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.