GraniteCrete™

Permanent. Permeable. Natural.

THE FUTURE OF PAVING

Installation Instructions

General Installation Details:

GraniteCrete™ is installed for typical pedestrian/ residential use as a 3-inch thick layer above a compacted 4-inch subgrade of Class II base rock. For light vehicular/ commercial applications such as driveways, bicycle paths and cart paths GraniteCrete™ is installed as a 4-inch thick layer over a 6-inch sub-grade of compacted Class II base rock. Compaction rates for all applications are 88 - 92%.

Measurements:

GraniteCrete™:

Residential Application / Pedestrian- (2 bag mixture) One cubic yard of aggregate/ decomposed granite and two (85 lbs.) sacks of GraniteCrete™ admixture combined covers 108 square feet at 3-inch thickness. Note: aggregate/ decomposed granite should be a 3/8" minus material.

Commercial / Light Vehicular Application- (3 bag mixture) One cubic yard of decomposed granite and three (85 lbs.) sacks of GraniteCrete™ admixture combined covers 82 square feet at 4-inch thickness. Note: aggregate/ decomposed granite should be 3/8" minus material.

Class II Base Rock:

Residential Application / Pedestrian- sufficient for 4-inch depth compacted at installation site.

Commercial Application / Light Vehicular- sufficient for 6-inch depth compacted at installation site.

Pre-Installation:

GraniteCrete™:

Residential Application / Pedestrian - (2 bag mix) each "batch" consists of 33 shovelfuls of aggregate/ decomposed granite and 3 shovelfuls of GraniteCrete™ admixture. The ratio is 11:1 or 11 shovelfuls of aggregate/ decomposed granite to 1 shovelful of GraniteCrete™ admixture.

Commercial Application / Light Vehicular- (3 bag mix) each "batch" consists of 33 shovelfuls of aggregate/ decomposed granite and 4 ½ shovelfuls of GraniteCrete admixture. The ratio is 11:1 ½ or 11shovelfuls aggregate/ decomposed granite to 1 ½ shovelfuls of GraniteCrete™ admixture.

Note: Due to the limited size of some cement mixers, it may be necessary to prepare GraniteCrete™ in "batches". There are approximately 10 batches per single cubic yard of decomposed granite. For best mixing results prepare each batch as follows:

1. Mix sixteen shovelfuls of decomposed granite to 1 ½ shovelfuls of GraniteCrete™ admixture (increase to 2 ¼ shovelfuls for Commercial application). Mix thoroughly and slightly moisten with water. Approximately 8 seconds with nozzle fully open.

2. Add the remaining 17 shovelfuls of decomposed granite plus an additional 1 ½ shovelfuls of GraniteCrete™ admixture. (Use2 ¼ shovelfuls for Commercial application).

It is important to stay close to these amounts, however, GraniteCrete™ is forgiving, and you do have some range, as shovelfuls cannot be exact. Mix thoroughly and moisten with water until the GraniteCrete™ mixture begins to marble or clump together. Approximately 10 seconds with nozzle fully open. Squeeze the mixture in your fist and open your hand. If the mixture just begins to stay together in a clump, it's ready for installation.

Class II Base Rock: Moisten and compact base rock on entire installation area to an even depth of 4-inch or 6-inch depending on residential or commercial application.

Installation:

1. Wheelbarrow each batch to the installation site and fill the site approximately 1-inch above the desired finished grade level. Rake the surface until even and level maintaining the 1-inch above the desired finished grade level. **DO NOT ALLOW GRANITECRETE TO DRY. MIST LIGHTLY WITH A HOSE END SPRAY HEAD AS NECESSARY OR COVER WITH A PLASTICE TARP.**

2. Compact surface with a vibratory plate (3-4 passes) to desired finished grade level. Smooth ridges and low spots with the straight edge of the asphalt rake and then roll loose materials of paving area with a heavy lawn roller. For a more finished surface, next use a medium bristled push broom and broom entire paving surface. Final compaction of loose materials after brooming should again be completed using a heavy lawn roller. NOTE: edges and corners must be hand tamped to achieve sufficient compaction. Compaction is complete when foot marks do not appear. **DO NOT ALLOW GRANITECRETE TO DRY. MIST LIGHTLY WITH A HOSE END SPRAY HEAD AS NECESSARY OR COVER WITH A PLASTIC TARP.**

3. **COLD JOINTS: Cold Joints**: "Between pours", **stop at an area that makes them look intentional**. Snap line just back from loose GraniteCrete into compacted area. With a square nose shovel cut a straight line and then continue with installation. Place newly mixed GraniteCrete into area**, being careful not to overlap existing compacted material.** With a concrete trowel or similar tool, tamp new material at a 45 degree angle 1" above existing grade and compact. If necessary, "feather" in with a medium bristled broom. At end of day's installation, place a 2"X4" or 2"X6" piece of wood and compact. The following day carefully lift the wood and continue, compact and feather.

4. The final step for a GraniteCrete™ installation is a dampening with water of all newly installed and compacted GraniteCrete™ materials. Using a shower head/ spray hose attachment, moisten the entire newly-installed GraniteCrete™ area avoid puddling. For best results, moisten all newly-installed GraniteCrete™ paving a second time the following day. Slow curing of GraniteCrete is important to avoid cracking.

You may walk on GraniteCrete™ immediately after installation. However, like concrete, GraniteCrete™ gets stronger with time. Ideally, stay off the newly installed GraniteCrete™ areas for at least one day, until heavy foot traffic is allowed. Vehicular traffic should stay off newly installed areas for 5 - 7 days.

Newly installed GraniteCrete™ paving surfaces are fully cured in 28 days. At that time, the entire surface should be blown or swept off to eliminate loose surface materials. Minor cracking may take place and this

is typical. Over time, the aggregate fines will fill in the minor cracks and they should disappear. Occasional blowing off of the surface will help to minimize loose surface materials.

Important reminders:

1. **Do not allow GraniteCrete™ to dry while still completing installation**. Mist lightly with a hose end spray head as necessary or cover with plastic tarp.
2. Non compacted or poorly compacted GraniteCrete™ top layer may result in loose and pebbled materials. Edge and corner compaction may require special attention hand tamping.
3. Non compacted or poorly compacted base rock may result in failure of top layer of GraniteCrete™.
4. Ideal moisture content of GraniteCrete™ mixed materials is 6.0 – 9. 0%. Excessive moisture level may result in "sticky" materials complicating the quality of the finish surface or proper compaction.
5. Aggregate/ decomposed granite materials should meet the specification in our Specification Guide
6. Recommended minimum 2% slope for surface drainage.
7. Compaction rates for all applications are 88 – 92%.

Recommended Equipment

Tools	Materials
Rounded point or flat edge shovels	GraniteCrete™ Admixture bags (85 lbs.)
6 cubic foot cement mixer	3/8" minus aggregate, decomposed granite for Residential/ Pedestrian application
Wheelbarrow	3/8" minus aggregate, decomposed granite with fines for Commercial/ Light Vehicular application
Vibratory plate/36" roller (static position)	Class II Base Rock
8" or 10" hand-tamps	Curbing or Header Board materials (if desired)
Hose w/ spray nozzle	Water source
Landscape and asphalt rake w/ flat edge	
Heavy lawn roller	
Medium bristled push broom	