Installation Instructions
Gravel-Lok® mix method with LSG Series® Load Support Grid

Gravel-Lok® POROUS STONE PAVING

LSG SERIES LOAD SUPPORT GRID

CELL-TEK® Geosynthetics

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Gravel-Lok® mix method with LSG Series® base

Read Safety Data Sheet located on our website before installing Gravel-Lok®.
It is highly recommended you make test samples before starting any job to see the effect of the liquid on the stones. Properly grade subgrade to allow water to flow away from any structures. Add drainage if necessary. Install moisture barrier if project meets a foundation with a basement. Geotextile fabric must separate aggregates from subgrade and soils on all sides of the project.

• All aggregates must be very clean and free from any fine particles or dirt. The cleaner the stone, the stronger the bond.
• Store Gravel-Lok® at 68 degrees or above until ready to use.
• Do not install if rain is expected within 12 hours.
• Do not cover with plastic. This will trap in moisture and cause premature curing.
• Install when outdoor temperature is 50 degrees or above and will not drop below 50 for at least 12 hours. Allow 24 hours to cure.
• Rope off treated area to protect it from people and animals.
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Must use appropriate protective gear when using Gravel-Lok®.
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PRECAUTIONARY STATEMENTS

HANDLING & STORAGE

Handling: Do not breathe mist, vapors or spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. In case of inadequate ventilation wear respiratory protection. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.
Storage Temperature: 60°F - 90°F (15.6°C – 32.2°C).

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear a face shield and chemical safety glasses or goggles.
Skin Protection: Wear impervious gloves. Cover exposed skin.
Respiratory Protection: For airborne exposure above the exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

FIRST AID MEASURES

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. If skin irritation or rash occurs, get medical attention.
Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a poison center or physician. Symptoms can be delayed for several hours.
Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting unless instructed to do so by a poison center or physician.
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<table>
<thead>
<tr>
<th>STEP 1:</th>
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<tbody>
<tr>
<td>Excavate the job site. Properly grade subgrade to allow water to flow away from any structures. Add drainage if necessary. Install moisture barrier if project meets a foundation with a basement.</td>
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<th>STEP 2:</th>
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<td>Layout non-woven geotextile fabric. This creates a barrier to prevent sediments from migrating up into the system and causing future settlement. Geotextile fabric must separate aggregates from subgrade and soils on all sides of the project. Note: We recommend DuPont geotextiles.</td>
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[Image of Gravel-Lok® equipment] [Image of geotextile fabric laid out on a site]
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**STEP 3:**

Expand and install Cell-Tek LSG SERIES® Load Support Grid. This reinforces the base material to prevent lateral movement.

- **LSG-3:** Pedestrian Traffic, 8,000 lb load bearing capacity
- **LSG-4:** Cars & Pick-Up Trucks, H10 Loading 40,000 lb
- **LSG-6:** Fire Access & Heavy Trucks, H20 Loading 80,000 lb.

We do **not** recommend using Gravel-Lok with this heavy load.

More details on LSG Installation can be found [here](#).

The goal is to create a continuous matrix of cells so each grid must be connected to the other. If the project is only a couple grids, drill holes and use zip ties. Larger projects can use our hand-held stapler or pneumatic stapler.

The cells should be infilled with a washed aggregate infill equivalent to a #57 (3/4”) stone to allow for maximum permeability. Overfill cells by 1".
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<th><strong>STEP 4:</strong></th>
<th><strong>STEP 5:</strong></th>
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<tr>
<td>Spread, level and compact.</td>
<td>Install edging (plastic, aluminum, etc.). This creates a clean edge to define the shape of the surface's final contours.</td>
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STEP 6:

Wash decorative stones and allow to dry (or use triple-washed Gravel-Lok Pebbles). Mix stones with Gravel-Lok in a plastic bucket, cement mixer or wheelbarrow.

MIXING RATIO:
In most cases, mixing 20-24 oz. of liquid with a 5 gallon bucket of stones is ideal. Important: a plastic 5 gallon bucket is considered ‘full’ when the contents are filled a few inches below the top of the bucket. Do not completely fill the bucket to the top with stones.

COVERAGE RATE:
Using a ratio of 20 oz. of liquid to a five gallon bucket of stone, the coverage rate is approx. 93 sf per five gallon container of Gravel-Lok based on mixing with stone and troweling out at 2" deep. (approx. 18.6 sf per gallon)

NOTE: For driving surfaces please contact Cell-Tek Geosynthetics at 888-851-0051.
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**STEP 7:**
Pour out in one small area.

Level and trowel to finish.
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| **STEP 8:** | Allow 24 hours to cure. Rope off treated area to protect it from people and animals.  
Do not walk on the surface before it has cured. Do not cover with plastic. This will trap in moisture and cause premature curing. |
|---|---|

| **STEP 9:** | Apply at least one roll coat using a medium nap foam paint roller. Allow each roll coat to cure for 24 hours before applying the next.  
**COVERAGE RATE PER ROLL COAT:**  
400-500 square feet per 5 gallon container. (90 - 100 sf per gallon) |
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See more information about Gravel-Lok and LSG Load Support Grid at
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