



Gravel-LokTM

CLEAR BINDER (includes UV additive)

Contains: Isophorone diisocyanate prepolymer CAS No. 113126-53-7
Isophorone diisocyanate CAS No. 4098-71-9
1,3-Dioxolan-2-one, 4-methyl- CAS No. 108-32-7

FOR INDUSTRIAL USE ONLY. WARNING: DO NOT INHALE. DO NOT SWALLOW. WARNING: ALWAYS WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. READ COMPLETE SDS AT WWW.CELLTEKDIRECT.COM BEFORE USE. DO NOT RE-USE EMPTY DRUMS OR CONTAINERS; DECONTAMINATE, PUNCTURE OR CRUSH. FOR OUTDOOR USE ONLY IN WELL-VENTILATED AREAS. PERSONS WITH KNOWN RESPIRATORY ALLERGIES SHOULD NOT USE THIS PRODUCT. OVEREXPOSURE MAY CAUSE PERMANENT RESPIRATORY DAMAGE.



DANGER

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Fatal if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.

Do not get liquid on anything not intended to be treated. It is all but impossible to remove. Consult Cell-Tek Geosynthetics at 888-851-0051 with any questions.

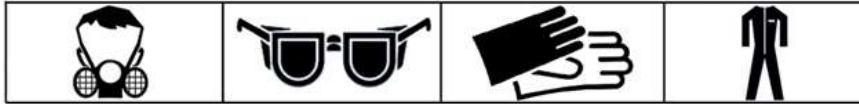
Lot #: _____

Mfg. Date: _____
(Shelf life 18 months from date above)

NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING PATENT WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE WITH RESPECT TO THIS PRODUCT.

**In event of spill or
emergency call:
Chemtrec 800-424-9300**

DISTRIBUTED BY: Cell-Tek Geosynthetics, LLC. 2431 Crofton Lane, Suite 9, Crofton, MD 21114. Toll Free: 888-851-0051



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: Remove 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.

In Case Of Spill or Leak: Isolate the hazard and deny entry to unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled material.

Small spills: Absorb with dry chemical absorbent, earth, sand or any other inert material. Allow to stand uncovered 48 hours before closing container. **Large spills:** Create a dike or trench to contain product. Follow same procedure as for a small spill.

In Case of Fire: Use water fog, foam, dry chemical or carbon dioxide. Wear positive pressure, self-contained breathing apparatus with full-face mask and full protective clothing.

For best results, bring liquid to room temperature 68 - 72°F (20 - 22.2°C) just before use. Install when outdoor temperature is 50°F (10°C) or above and will not drop below that for at least 12 hours. If it is 50 - 55°F (10 - 12.8°C) then cure time can be up to 48 hours. Do not install if rain is expected within 12 hours. Do not cover treated area with plastic. Rope off treated area to protect it from people and animals. Within 4 - 6 weeks, inspect surface for loose stones. Repair promptly. Repeat inspection and repair annually. For repair methods, contact Cell-Tek Geosynthetics at 888-851-0051 or visit www.celltekdirect.com.

STONE SCAPING INSTALLATION INSTRUCTIONS

for joints between flagstones or concrete pad layovers, planters, or for any other small areas

Subgrade Preparation:

1. Excavate and shape foundation soils to proper grade and depth depending on which Gravel-Lok system you are installing. See CADS tab at www.celltekdirect.com.
2. Make sure subgrade is prepared to 95% compaction.

Installation:

1. If using a non-woven geotextile fabric, place it over the subgrade. (We recommend DuPont brand SF-20)
2. Clean stone thoroughly. Allow to dry. Stone must be free from any fines or dirt. Cleaner stone will create a stronger structure.
3. Do a test to determine correct mixing ratio. Ratio should be approx. 20 - 24 oz. to 1 five gallon bucket of stones. Starting with a ratio of 20 oz. liquid per five gallon bucket of clean, dry stone, mix liquid with stones and spread out at 1-1/2" thick on a piece of cardboard or wood. Allow to rest for 5 - 10 minutes. Remove gravel. If the liquid has dripped onto the cardboard or wood then the mixing ratio is correct. If not, repeat using an extra ounce of liquid for each mix ratio test until desired result.

Larger stones typically require less liquid than smaller stones. Once correct mix ratio is determined, mix stones with liquid at that ratio and toss gently to coat them until they are wet. This can be done in a five gallon plastic bucket, wheelbarrow or cement mixer. Cement mixer can be cleaned up with acetone before liquid cures.

4. Pour out the coated stones placing them into the desired areas at 1" to 1-1/2" thick. A trowel can be used if necessary to smooth it out. Note: If you see foaming it is a sign that too much liquid is being used. Crush foam and reduce quantity being applied. Be careful to not get the coated stones on any surrounding pavements, flagstones, walls, etc. It can stain those areas permanently.
5. If you are doing a concrete layover or garden path allow surface to cure for 24 hours. Apply roll coat of Gravel-Lok using a medium sized paint roller.

PEDESTRIAN SURFACES INSTALLATION INSTRUCTIONS

Subgrade Preparation:

1. Excavate and shape foundation soils to proper grade and depth depending on which Gravel-Lok system you are installing. See CADS tab at www.celltekdirect.com. Be sure water will flow away from any structures. Install moisture barrier if treated area meets a foundation with a basement.
2. Make sure subgrade is prepared to 95% compaction.

Installation:

1. Install drainage if necessary. Then, place DuPont SF20 or SF40 non-woven geotextile fabric over subgrade being sure to overlap when necessary to provide 100% coverage and extend fabric up on all sides so that soil cannot infiltrate the system.
2. Install proper cell depth of Cell-Tek Geosynthetics Load Support Grid (LSG). Confirm each grid section is expanded uniformly to correct dimensions and outer cells are correctly aligned. Interleaf or overlap edges of adjacent sections, joining grids to create a continuous matrix of cells. Use rebar spikes in some outer cells to hold grid open to full expansion.
3. Fill cells with chosen infill aggregates and overfill cells by 1". Contour to correct grade and compact infill to a 95% compaction rate.
4. Install edge restraint. Standard aluminum or plastic edge restraints, masonry, or concrete curbing may be used.
5. There are TWO installation methods for Gravel-Lok described below: (A) Pour Method or (B) Mix Method.

(A) Pour Method:

All decorative stone can be spread out, troweled to level, washed in place, and allowed to dry. Sprinkle Gravel-Lok liquid onto the stones with a plastic watering can. Enlarge holes in spout if needed. If you see foaming, it is a sign that too much liquid is being used. Crush foam and reduce quantity being applied. This method may require two separate pours, allowing 24 hours to cure between each application. Allow 24 hours to cure. Apply 1 – 3 roll coats depending on desired durability using a medium sized paint roller and allowing 24 hours cure time in between each roll coat.

(B) Mix Method:

Prepare decorative stones by making sure they are thoroughly clean and dry. This process is best done in advance to allow for proper drying time. Do a test to determine correct mixing ratio. Ratio should be approx. 20 – 24 oz. to 1 five gallon bucket of stones. Starting with a ratio of 20 oz. liquid per five gallon bucket of clean, dry stone, mix liquid with stones and spread out at 1-1/2" thick on a piece of cardboard or wood. Allow to rest for 5 – 10 minutes. Remove gravel. If the liquid has dripped onto the cardboard or wood then the mixing ratio is correct. If not, repeat using an extra ounce of liquid for each mix ratio test until desired result. Larger stones typically require less liquid than smaller stones. Once correct mix ratio is determined, mix stones with liquid at that ratio and toss gently to coat them until they are wet. This can be done in a five gallon plastic bucket, wheelbarrow or cement mixer. Cement mixer can be cleaned up with acetone before liquid cures. Working in small areas, pour out the coated stones, level and trowel to finish to desired thickness, at least 1-1/2" thick. Be careful to not get the coated stones on any surrounding pavements, flagstones, etc. It can stain those areas permanently.

Allow 24 hours to cure. Apply 1 – 3 roll coats depending on desired durability using a medium sized paint roller and allowing 24 hours cure time in between each roll coat.