

EnviroSAND^{plus} Technical Data Sheet



EnviroSAND^{plus} blends a scientifically designed joint sand with the plant-based glue, Organic-Lock™, for joint sand stabilization in segmental pavement systems. Organic-Lock™ is the strongest, self-healing organic glue on the market and is made from 100% naturally occurring materials. When activated by water, the Organic-Lock™ forms an adhesive gel, bonding the sand particles together. After this bonding takes place, joint sand loss due to wind and rainfall erosion is substantially reduced while nuisance weeds and ant infestations are effectively controlled.

EnviroSAND^{plus} remains completely flexible to withstand thermal movement or settlement of the sub-base materials. Additionally, the gelling ability of the Organic-Lock™ allows the joint to self-heal. In conditions where cracking or movement may occur, rain water reactivates the Organic-Lock™, allowing the joint material to re-mold and fill any cracks. This self-healing aspect allows the segmental system to remain segmental while maintaining joint sand stability.

Applications

- For the joints of segmental paving systems
- These include pavers and slabs made from concrete, natural stone, etc.
- Minimum Joint Width: 1/8"
- Maximum Joint Width: 3/8"
- Joint Depth: Full thickness of paver/slab
- Areas with normal rainfall exposure and proper drainage¹
- Light vehicular traffic such as driveways, light vehicle parking lots, etc.
- Pedestrian traffic such as walkways, patios, etc.

Properties

- Controls wind and rainfall erosion
- Remains flexible
- Self-healing
- Inhibits weeds and insect infestations
- Reduces maintenance
- Works in all climates
- Environmentally friendly
- Meets ASTM C-144 gradation guidelines for jointing sand

¹ Only install **EnviroSAND** on segmental systems that have proper base and bedding materials as laid out by the Interlocking Concrete Pavement Institute (ICPI). Do not install **EnviroSAND** systems where the pavers are installed directly on concrete, or other impermeable surfaces. Ensure that proper watershed management practices are used to allow water to drain from the surface of the pavers and prevent pooling of water on the surface. The performance of the product can be impacted if the jointing material remains constantly wet.



www.envirobond.com

Installation Procedure

always remember...

1. Pour



Pour **EnviroSAND** evenly over a centralized area on the surface of the segmental system.

2. Sweep



Sweep **EnviroSAND** into joints ensuring that the joints are filled to the bottom of the chamfer of the paver or 1/8" below the top of the paver surface. Do not over-sweep due to the risk of particle segregation. Never sweep a pile more than 10 feet in total distance. Sweep in a 45 degree angle to the joint for optimal joint filling.

3. Compact



Compact the entire application with a vibrating plate tamper to ensure proper joint fill. Some paver manufacturers may recommend that you use a protective rubber pad on the tamper plate during this step to prevent

4. Blow



Sweep the surface clean and blow off any surface dust with a leaf blower or equivalent. Hold leaf blower horizontally approximately 2 feet above the surface on an idle setting to ensure that sand in joints stays in place. This will help prevent surface staining of the pavers caused by residue.

scuffing of the paver surface. See the paver manufacturer's website for more information. Repeat steps 2-3 until **EnviroSAND** is packed to the full depth of the paver, and the joint is filled to the bottom of the chamfer or 1/8" below the top of the paver surface.

5b. Water - Heavy spray

Within 10 minutes of the initial water mist, apply a heavier spray using a side-to-side motion to remove any remaining product residue from the surface while further saturating the joints. Ensure the surface does not dry before you complete this step. You may need to work

stage 2 - heavier spray



in sections to achieve this. Be careful not to apply high pressure water directly on the joint which can result in displacement of the material prior to full saturation. Continue applying the harder water spray until the surface water runs clear.

Between 2 and 4 repetitions are best to achieve this. The Organic-Lock in the **EnviroSAND** is active and able to resist erosion immediately upon watering.

5a. Water - Light mist



Apply water to the **EnviroSAND** with a light mist from a garden hose or equivalent to saturate the top 1/8" of material. When pooling of water occurs, the top layer is saturated. Allow 5-10 minutes for the binder to activate. A Multi-setting spray nozzle is ideal.

Wear appropriate safety equipment when installing EnviroSAND (see MSDS).

EnviroSAND should be installed over DRY pavers/slabs. Do not install if rain is expected over the course of the installation.

Always conduct a sample installation in a small area (minimum 4 sq. ft.) using the recommended installation method to ensure the product meets your expectations.

Coverage

Coverage of material is dependent on joint width and depth. Typical application coverage rate is between 40 and 100 sq. ft. per 25kg bag. Examples of coverage rates per bag are as follows:

- 45-60 sq. ft. for a narrow joint tumbled paver
- 25-40 sq. ft. for a wide joint tumbled paver
- 70-90 sq. ft. for a Holland paver.

Maintenance

If joint damage occurs, remove any contaminated material (i.e. soil, debris, etc.) and top up the joint with new **EnviroSAND** material. If more than 50% of the joint depth requires additional material, a vibrating plate tamper should be used to compact the material. Follow the same watering procedure as described in the installation procedure.

If the segmental system needs maintenance (due to ground settling, damaged pavers, etc.), saturate the joint material with water to reactivate the Organic-Lock™, making the material pliable. Lift the affected pavers and clean off any existing jointing material. Adjust/replace the pavers and install new Envirobond material where needed using the standard installation procedure.

Packaging and Storage

Product	Colour	Unit Size	Units per Pallet
EnviroSAND	Natural	25kg (55lb)	56
	Granite	25kg (55lb)	56

EnviroSAND must be stored in a dry place. If any moisture is discovered inside a bag, discard the material. Bags may be stored outside if kept off the ground and covered with a pallet hood cover or tarpaulin. For extended storage, the bags should be protected from U.V. radiation to prevent degradation of the bags.

Safety

WARNING! CAUSES EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. Avoid contact with eyes, skin and clothing. Do not breathe dust. Wash thoroughly after handling. **KEEP OUT OF REACH OF CHILDREN.** Wear appropriate safety equipment.

FIRST AID: Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. Skin contact: Wash thoroughly with soap and water for 20 minutes and clean any exposed clothing before reuse.

FOR MORE INFORMATION, CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS)

Manufacturers Warranty

Proof of purchase is required with all claims.

User must test product in a small area (approx. 4sq. ft) using proper installation guidelines, prior to full use.

Manufacturer requires photographic evidence of any problem area.

Manufacturer requires date and batch number located on side gusset of bag.

Manufacturer will replace defective product or product cost only, in the case of an approved claim (i.e. Labour cost is not reimbursable).

For full Manufacturers Warranty, please consult: www.envirobond.com/warranty

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