

EkoFlo®



COVERAGE up to:

50Ft²

Per Gallon

(See coverage rates in Section IV)

TYPICAL USES:

- Walkways & Patios
- Treewells
- Drainage

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

EkoFlo® is a breakthrough in permeable, natural surfacing technology. Mixing EkoFlo® with clean, dry pebbles creates a beautiful surface for patios, walkways, tree wells, and drainage conductors. Once cured, the finished product forges a strong and visually stunning surface with high permeability.

- Creates Beautiful Pebble Surfaces
- Water Permeable Technology
- Superior Bond Strength
- Freeze/Thaw Resistance
- Eco-Friendly



II. Material Selection Recommendations:

EkoFlo® works best with pebbles that have been screened, washed, and dried prior to packaging. Typically these types of pebbles can be found in pre-packaged bags, pails, or super-sacks.:

EkoFlo® can also be used with other clean, washed & dried materials such as:

- Recycled Glass
- Synthetic (Rubber) Mulch Chips
- Angular Rock Chips

A washed pebble will be free of stone dust or other impediments that could affect the bond strength and aesthetic of the surface.

EkoFlo® is not recommended for use with bulk materials that may contain more sediment and moisture such as pea gravel and crushed stone mixes.

Recommended pebble or recycled glass size ranges are:

- 1/8" - 1/4"
- 1/4" - 3/8"
- 3/8" - 1/2"

** Pebbles larger than 1/2" are not recommended for use with EkoFlo® due to reduced bond points and stability. **



III. Pebble Washing Instructions

Some 1/8" - 1/2" pebbles may require a thorough wash & dry process before use with EkoFlo®.

Test the cleanliness of the pebbles by rubbing in between gloved fingers. If any residue or sediment is left behind, the pebbles will need to be washed, or rewashed.

Using a bucket, wheelbarrow, or wind-row, thoroughly wash pebbles with water and mild detergent (if needed). Agitate pebbles completely with clean shovel or rake. Rinse thoroughly, especially if detergent was used for cleaning.

Allow pebbles to air dry completely. Some agitation of the pebbles may be needed to allow evaporation.

Once again, test pebbles by rubbing in between gloved fingers. If residue or sediment still exists, consider a cleaner material for use with EkoFlo®.

ALWAYS PERFORM A TEST SECTION USING RECOMMENDED INSTALLATION METHODS TO CONFIRM SUITABILITY OF PEBBLES AND PROJECT CONDITIONS.

IV. Coverage

Coverage rates are dependent on size and installation depth of pebbles used.

Pebble Size Range:	EkoFlo® Ounces / 5-gallon bucket of pebbles	Coverage:
1/8" - 1/4"	24 ounces	30 ft ² /gallon
1/4" - 3/8"	16 ounces	40 ft ² /gallon
3/8" - 1/2"	12 ounces	50 ft ² /gallon
Recommended Installation Depth @ 1.5"		

V. Installation Recommendations

Consider complimentary weather conditions before, during, and after EkoFlo® application.

- Do not install EkoFlo® less than 48 hours before or after rainfall.
- EkoFlo® should only be installed when the outside ambient temperature is 55° F and rising.
- Avoid temperatures below 55° F, or above 90° F for any phase of EkoFlo® installation or storage.
- Cooler ambient temperatures may increase cure time, conversely, warmer ambient temperatures may decrease cure time.

If needed, pebbles should be washed and dried before installation to ensure maximum bond strength.

Disable any irrigation systems in treated areas during application and curing phases.

Mask all adjacent surfaces with tape and polyethylene film to protect surface materials from possible staining (i.e. stone, pavers, concrete, etc.)

Tarp and protect areas where mixing of the pebbles with EkoFlo® will take place. If a spill occurs or any EkoFlo® binder gets on any solid surface, use acetone or, paint thinner to remove immediately.

VI. Application Guidelines

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

- Gloves
- Safety glasses

VI. Application Guidelines (continued)

Project planning

- 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 to an adequate depth to account for water percolation and drainage.
- 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.
- 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

- Load bearing qualifications for any standard surface should be considered when constructing subbase for EkoFlo®. While certain applications will allow for better drainage, they may not be adequate for various traffic loads. Consider the traffic load before constructing subbase.
- For optimal water transfer permeability, a subbase comprised of compacted #57 (screened base rock) pebble or equivalent is recommended.
- While a subbase construction consisting of a compacted crushed stone mix will provide for higher load bearing performance, it can greatly reduce the drainage performance.
- Excavate project area to an adequate depth to account for water percolation and drainage.
- 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.
- 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.

Mix EkoFlo®

- Add pebbles to 5-gallon bucket, wheelbarrow, or mortar mixer. Use mixing equipment that is free from concrete residue or other sediment.
- Refer to Coverage (Section IV), to determine the amount of EkoFlo® needed.
- Mix thoroughly until all pebbles are evenly coated.

Install EkoFlo® Material

- Pour blended mix directly onto prepared surface area. EkoFlo® treated pebbles should be installed within 15 minutes of mixing.

VI. Application Guidelines (continued)

Surface Layer

- Use a masonry trowel, rake, and/or screed board to level and compact the pebble mixture to desired grade.
- Roll with a drum roller to attain a smooth surface, if needed.
- All pebbles should be flush and smooth at the surface level.

Clean Tools

- Immediately after use, completely clean all tools and equipment with acetone, or paint thinner, and allow to soak for 1 - 2 minutes.

Curing

- Allow surface to cure for 24 - 72 hours depending on conditions. Material will begin to solidify within 4 - 12 hours.
- Avoid unnecessary foot traffic, water infiltration, or otherwise on treated areas until fully cured (usually 24 - 72 hours).
- Remove any temporary edging 5 - 6 days after installation.

VII. Storage

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

VIII. Maintenance

Treated areas should withstand normal conditions for 24 - 60 months before a maintenance coat is needed.

If a maintenance coat is needed, apply EkoFlo® at a rate of 150ft²/gallon using a paint roller or brush.

IX. 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.