



Friendly Environment

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The Erosion EEL™, by its very nature, functions to help prevent physical degradation of the environment by enhancing water quality.

ABOUT US

Friendly Environment was established in 2006 and specialized in pollution controls that are highly effective and environmentally sustainable. Friendly Environment prides itself on its commitment to excellence in product research and development, performing an extensive array of testing during product development. The company is headquartered in Shelbyville, Tennessee, which is 60 miles southeast of Nashville.

The founder and owner Denny Hastings, an award winning home builder, is responsible for developing the company's first product, the ErosionEEL™. The idea was born out of the constant frustrations of installing and maintaining silt fence at his construction sites.

WHAT IS THE ErosionEEL™

The ErosionEEL™ is an environmentally friendly, low impact erosion and sediment control device. Many advantages include:

- Easy installation with **no trenching required**.
- Replaces silt fence, rock check dams, temporary diversion berms, and storm /inlet drain protection.
- May be placed over multiple surfaces including soil, asphalt, concrete, and **surface rock**.
- DOT Approved in many states.
- **Durable, reusable, and easily moved**, thereby making it very cost effective compared to silt fence and other BMPs.
- **High suspended solids capture** (filter efficiencies) comparable to standard silt fence.
- **Increased flow rates** through the filter material as compared to silt fence preventing localized flooding during storm events.

ABOUT THE ErosionEEL™

- Three-dimensional Filter — Sediment retention roll/tube
 - Function: Suspended particle capture; flow control
- Woven polypropylene geotextile exterior
- Nominal 9.5" diameter
- Manufactured lengths = Nominal 10ft. and 4.5ft.
- Internal fill Material Mixture
 - Washed shredded rubber (metal removed) - Supplier: MTR
 - AASHTO - specified hardwood chips (0.5" to 0.75" in size)



ENVIRONMENTAL SUSTAIN ABILITY ENVIRONMENTAL COMPATIBILITY

The ErosionEEL™ minimizes the removal/extraction of natural resources, minimizes the amount of newly manufactured substances, and minimizes physical degradation of the environment.

The ErosionEEL™ is reusable within a project and can be moved to other project sites:

- Minimizes the amount of new product manufacturing (involving extraction of natural resources, additional manufactured products into the environment).
- Limits the amount of new geotextile fabric required for manufacturing (silt fence vs. ErosionEEL™).
- At the end of EEL cycle, rubber material is cleaned and reused in new EELs that are produced.

Synthetic Precipitation Leach Procedure (SPLP)

- pH of 4.2 and pH 7.0 (modified SPLP)
- Testing for metals, volatiles, surfactants, base/neutral extractables, acid extractables

Rubber Fill Material Results

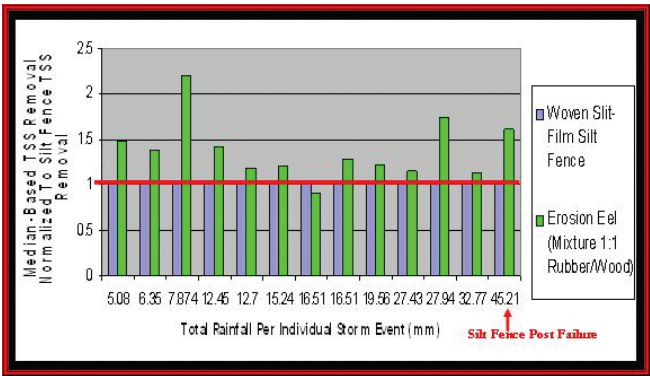
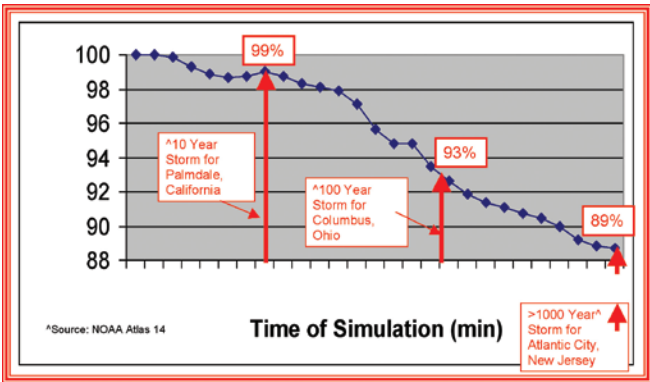
- No adverse levels of any constituents have been extracted (relative to human exposure and aquatic toxicity)

Synthetic Fibers (nylon, PP, PET)

- No adverse levels of any constituents have been extracted (relative to human exposure and aquatic toxicity)

PERFORMANCE

The test results for the ErosionEEL™ at the San Diego State University Soil Erosion Research Laboratory revealed that the EEL is very resilient under extreme rainfall intensities and slope conditions. The protocol used was designed to fail all BMPs in order to determine the performance limits. However, the ErosionEEL™ retained as high as 89% solids from a 33% barren slope under rainfall conditions at or exceeding the 1000 year storm event.



Field testing demonstrates the EELs consistently outperform silt fence during real storm events.

DEWATERING

Friendly Environment also has a patent-pending process to treat dewatered slurry in the field. The system incorporates a synergistic approach utilizing two of the company's patent-pending products: the ErosionEEL™ and FlocMat.

Like silt fence, the ErosionEEL™ can be applied to intercept sheet-flow runoff by installing the sieves perpendicular to flow along sloped surfaces. Unlike silt fence, the product can also be placed within concentrated flow paths to act as a check dam. It can also be used to direct flow as a temporary diversion berm.

FlocMat is a new material comprised of natural and synthetic fibrous matting impregnated with polymeric compounds that promote flocculation of suspended soil particles to enhance settling rates and absorption onto the surface area of the fiber matting.

