Mat, Inc.
FLOODWOOD, MINNESOTA

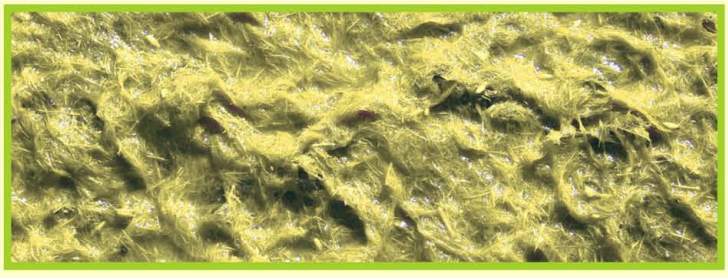
SOIL GUARD®

BONDED FIBER MATRIX

Soil Guard® Bonded Fiber Matrix* (BFM) represents a breakthrough in erosion control technology. It is a one or two-step erosion control system that revolutionized the practice of soil conservation. It is highly cost-effective and has been a market leader since 1993. It is the only BFM on the market requiring it be applied by Certified Applicators and comes with a company backed warrantee.

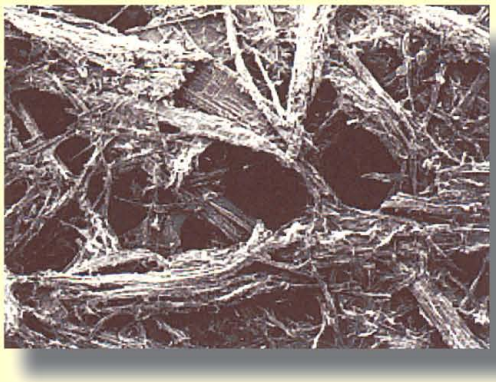
Unique among erosion control systems, Soil Guard® delivers the performance of a blanket combined with dramatic cost savings of time and labor. The result is a cost-benefit ratio that makes it the best choice for a very wide range of erosion control needs. Now erosion control planners and contractors can rely on its state-of-the-art features to minimize erosion and promote germination.

Hydraulically applied, Soil Guard® conforms to the contours of the ground and dries to form a bonded fiber matrix. Once dry, the matrix can be hydrated repeatedly and will hold soil and seed without washing away. As vegetation takes hold, Soil Guard® slowly decomposes to enrich the soil. Soil Guards® patented formula is non-toxic and completely bio-degadable so it is safe to use around wildlife, pets and children. (A toxicity report available upon request.)



Soil Guards® distinctive and patented yellow color makes for easy gauging of application rate to ensure proper application. Besides lending a beautifying effect to the job site it gives instant recognition that Soil Guard® was used where requested or specified.

Shown here At 40X magnification, Soil Guard® fibers bond to form a matrix that holds soil and seed in place.



A Measurably Better Erosion Control System

One or Two Step Application for 100% Coverage

Conforms to the soil surface, No special site preparations, eliminates tenting and under-rilling problems, Excellent germination results, adheres to almost any soil surface.

Enhanced Germination

Holds seed and fertilizer in Place. Allows moisture, sunlight and plants to penetrate.

Substantial Savings with Every Application

Requires less labor and substantially less time to install. Soil Guard® application is significantly less than conventional methods. Can be applied to sites where blanket-like protection is required.

Reduced Soil Erosion and Water Runoff

Dries into a flexible mat. Minimizes the impact of even heavy rain. Slowly releases moisture to the soil below. Remains cohesive and bonded to the soil.

Fully Biodegradable

Non-toxic and fully biodegradable. Made from a blend of wood fibers, a natural binding agent, and a mixture of organic and mineral activators. No plastic netting, so it's safer for wildlife. No harmful residues.

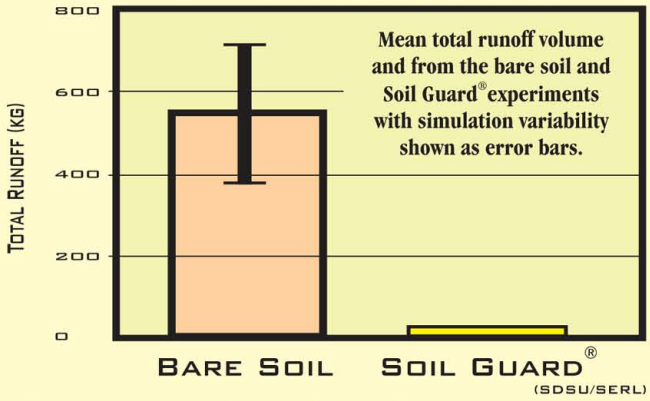
More Convenient Handling

Self-contained one bag system is easy to apply and relatively maintenance free. Packaged in durable paper or plastic bags for easy transport and handling.

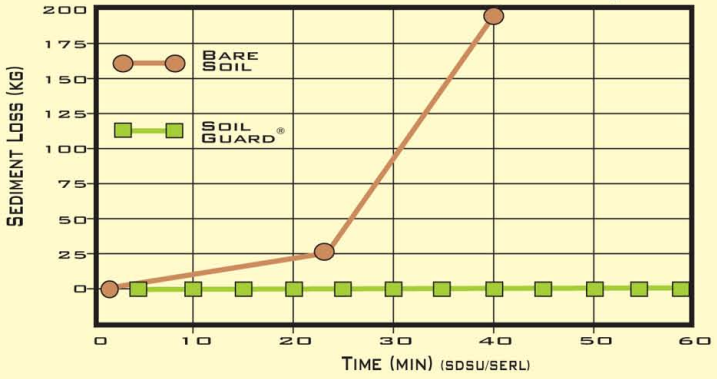
Soil Guard® conforms to the contours of bare soil immediately on contact for erosion controlling protection.

Because Soil Guard® is hydraulically applied it can be used to treat areas that may be difficult if not impossible to protect with other erosion control systems.

Sediment Run Off



Cumulative Sediment Export



Lab Test Confirm Soil Guards® All Around Performance

Soil Guard® was put to the test under controlled conditions at the nation's top erosion control laboratory. To judge Soil Guards® performance, the university-based lab ran the same series of tests used to evaluate other types of erosion control materials. In short, they subjected Soil Guard® to enough simulated rainfall to cause failure in any other material. Yet remarkably, after the standard test length, Soil Guard® showed no signs of failure. The test length had to be doubled before Soil Guard® showed any measurable soil loss. The results were dramatic by any measure.

Leading Erosion Control Test Facility
(minimum performance)

Specification Item	Class	Type	Site Conditions	Sediment Loss		Min. Vegetation Density	
				Max. Loss	Soil Guard	Minimum	Soil Guard
169 "Soil Retention Blanket"	1 "Slope Protection"	A	Slopes 1:3 or Flatter - Clay Soil	0.34	.27	80%	84%
		B	Slopes 1:3 or Flatter - Sand Soil	12.20	8.04	70%	87%
		C	Slopes Steeper Than 1:3 - Clay Soil	0.34	.27	80%	84%
		D	Slopes Steeper Than 1:3 - Sand Soil	26.84	8.04	70%	87%

Soil Guard® exceeds minimum standards set by a leading test facility in both soil types with slopes mentioned above. (TTI)

Choose Soil Guard® Bonded Fiber Matrix when:

- Steep or rugged terrain make soil preparation difficult or impossible.
- Weather or schedules demand immediate erosion protection and fast plant growth.
- Severe slopes or surface flows require erosion protection for up to nine months.
- Nearby wildlife habitat or residential areas need nontoxic solutions. (When used as directed)
- Cost-effectiveness, timeliness, results and quality are important.

With its accurate chemistry, trust Soil Guard®
to produce Easy, Consistent and Reliable results.

Tech Specs

Product properties have been determined using scientifically sound and reliable test methods. Other test methods may produce slightly different results.

Ingredients:

Wood fiber content	>88%
Guar gum tackifier content by weight	<9%
Basic yellow dye	<1%
Trade secret	<1%
Trade secret	<1%

Composition:

Organic matter (min.)	94%
Inorganic matter (ash) (max.)	6%
Moisture content (total weight base)	12%±3%
pH at 3% consistency in water slurry (avg.)	4.8
Water-holding capacity (min.)	1.2gal./lb.

Coverage:

3000-4000 lbs. /Acre to achieve 100% coverage.

"C" Factor	6" Rainfall
Soil Guard®	0.001
Bare Soil	231
Percent % Of Effectiveness	99.9

(1) Results confirmed by the San Diego State University Soil Erosion Research Laboratory (SDSU/SERL). Testing conducted December 2006. Technical Report Number 01-2006 ASTM 6459-99

Performance

Drying Time.....12-24 Hrs.
Longevity..... up to 9 mos.
depending on sight conditions

Packaging and Shipping

Net Wt. 50 lbs. 22.6 kg. Net Dry Wt. 44-45 lbs.

Packaged in 50 lb. (22.6 kg.) plastic or multi-walled paper bags.

Available in palletized 36 bag units or 18 bag units

Product Certification and MSDS available upon request.

Intended Use

Soil Guard® has been designed to control superficial erosion caused by wind or falling rain on the treated area. Soil Guard® controls erosion until permanent stabilizing vegetation can be established in disturbed areas commonly associated with: state, county, or city D.O.T, Corps of Engineers/flood control, landfills, water retention ponds, landscaping, retaining wall structures, pipe and cable trenching, ski areas, golf courses, home lawns, and wetlands.

Non-Intended Uses

1. **The prevention of landslides on soils that display deep seated instabilities or that are subject to surface peeling or frost heave.**
2. **Extended or permanent erosion control in non-vegetative applications.**
3. **As a channel liner or in areas where poor site design concentrates overland water flow.**

Mat, Inc.
Quality Erosion Control Products

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ECTC Erosion Control Technology Council Directing Member

* Soil Guard® is a Bonded Fiber Matrix (BFM) as defined by the Erosion Control Technology Council (ECTC).

Contact Mat, Inc. At 1-888-477-3028 or visit our website at www.soilguard.com today to learn more about how Soil Guard® can help you hold your ground.