



Stabilized Mulch Matrix



Forms an erosion-resistant, built-in-place blanket that prevents polymer leaching and dispersion of soil particles



Contours to the surface to ensure intimate soil contact



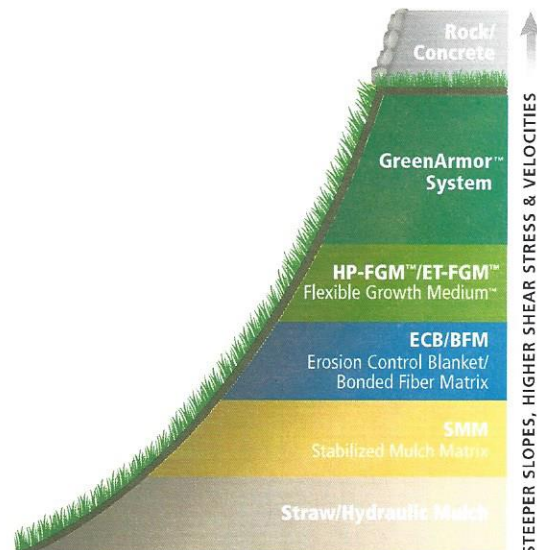
Non-toxic, environmentally safe and biodegradable

Cost-Effective Soil Stabilization on Active Construction and Building Sites

Terra-Matrix™ Stabilized Mulch Matrix (SMM) is designed to provide superior stabilizing performance on slopes and building pads from flat to a grade of 2.5H:1V. This effective and trusted performance is critically important since more stringent standards of the Clean Water Act have made it essential that site managers have a low-cost yet effective method of preventing erosion and sediment loss on sites where soil has been disturbed.

Terra-Matrix™ SMM Advantages:

- Features a combination of Thermally Refined® wood fibers, cross-linked tackifiers and activators to anchor the fiber matrix firmly to the soil surface
- Proven to stand up to multiple rainfall events for up to 6 months
- Pre-blended for consistent, reliable performance
- No fish or wildlife concerns
- No netting, staples or lifting



Terra-Matrix™ SMM Technical Data:

TEST METHOD	ENGLISH	SI
PHYSICAL		
Mass Per Unit Area	ASTM D6566 ¹	9.9 oz/yd ² 336 g/m ²
Thickness	ASTM D6525 ¹	0.10 in 2.5 mm
% Ground Cover	ASTM D6567 ¹	95% 95%
Water-Holding Capacity	ASTM D7367	1350% 1350%
Cure Time	Observed	24-48 hr 24-48 hr
Color (fugitive dye)	Observed	Green Green
ENDURANCE		
Functional Longevity ²	Observed	≤ 6 months ≤ 6 months
PERFORMANCE		
Cover Factor ³ (5 in/hr event)	Large Scale Testing ⁵	0.10 0.10
% Effectiveness ⁴	Large Scale testing ⁵	90% 90%

COMPOSITION

Thermally Processed Wood Fibers – 83% ± 4%
 Proprietary Crosslinked Polysaccharide Tackifier – 10% ± 1%
 Moisture Content – 10.5% ± 1.5%

INSTALLATION

Use approved hydro-spraying machines with fan-type nozzle (50-degree tip) whenever possible to achieve best soil coverage. Apply SMM from opposing directions to assure 95% soil surface coverage. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 50 ft (15 m).

Erosion Control and Revegetation:

For maximum performance, apply SMM in a two-step process:

Step One: Apply fertilizer, other soil amendments and 50% of seed with a small amount of SMM for visual metering.

Step Two: Mix balance of seed and apply SMM at a rate of 50 lb per 125 gal (23 kg/475 L) of water over freshly seeded surfaces. Confirm loading rates with equipment manufacturer. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.

Depending upon site conditions SMM may be applied in a one-step process where all components may be mixed together in single tank loads.

SLOPE GRADIENT/CONDITION	ENGLISH	SI
≤ 4H to 1V	2000 lb/ac	2250 kg/ha
> 4H to 1V and ≤ 3H to 1V	2500 lb/ac	2800 kg/ha
> 3H to 1V and ≤ 2.5H to 1V	3000 lb/ac	3400 kg/ha
> 2.5H to 1V and ≤ 2H to 1V	3500 lb/ac	3900 kg/ha

Consult comprehensive CSI formatted SMM specification for additional details.

PACKAGING

Bags: Net Weight - 50 lb (23 kg)

UV and weather-resistant plastic film

Pallets: 40 bags/pallet, 1 ton (907 kg)/pallet

Weather-proof, stretch-wrapped with UV resistant pallet cover

1. ASTM test methods developed for Rolled Erosion Control Products and have been modified to accommodate hydraulically applied erosion control products.
2. Functional longevity depends on moisture, light and environmental conditions.
3. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.
4. % Effectiveness = One minus Cover Factor multiplied by 100%.
5. Large scale testing conducted at Utah Water Research facility using rainfall simulator on 2.5H:1V slope, sandy-loam soil, at a rate of 5" (13 cm) per hour for a duration of 30 minutes.



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 EARTH-FRIENDLY SOLUTIONS FOR SUSTAINABLE RESULTS™

Green Design Engineering™ is a holistic approach that combines agronomic and engineering expertise with advanced technologies to provide cost-effective and earth-friendly solutions. Profile strives to deliver Green Design Engineering across our team of consulting professionals, innovative products and educational resources.



PS³ is a free, comprehensive 24/7 online resource you can use to design a project and select the right products that address both the physical and agronomic needs of your site. It will help you develop holistic, sustainable solutions for cost-effective erosion control, vegetation establishment and subsequent reductions in sediment and other pollutants from leaving disturbed sites. Because good plans start with the soil, PS³ offers free soil testing to ensure this critical step is considered. To access the site, design your project and take advantage of a free soil analysis, visit www.profileps3.com.



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