

TERRA- MULCH[®]

Technologies
For Every Site



Better science.

Better erosion control.

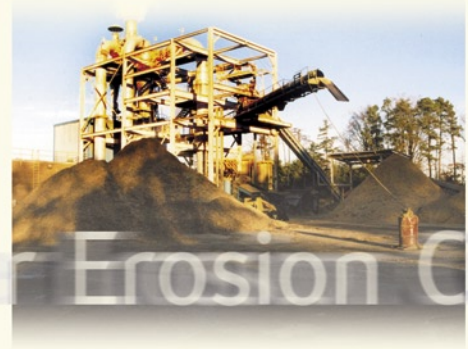


comprehensive solutions
faster germination
less soil loss



The Erosion Control Innovator Continues to Lead

Terra-Mulch® is widely recognized as the leading developer of innovative hydraulic mulches that more effectively stabilize soil, promote more complete seed germination, encourage more rapid plant establishment and help ensure you're not called back to a site for reapplication. That legacy of constant innovation includes the introduction of synthetic fibers to add mechanical strength to the mulch matrix, polymers to increase water-holding capacity and resins behind the industry's leading tackifier, ProPlus® Tacking Agent 3®. As you'd expect, no other company devotes as much of its resources to the research, development, university evaluation and on-site testing of hydraulic mulch as Terra-Mulch.



■ Introducing **ULTRAGRO™** for the Ultimate Growing Environment

The latest innovation from the scientists at Terra-Mulch is a proprietary biostimulant formula that makes plant growth more certain, even in the harshest environments and poorest soils. Terra-Mulch offers the industry's only wood and wood/cellulose blend hydraulic mulches with the added value of UltraGro™ built in. This biostimulant package is proven to promote seed germination and plant growth while strengthening plant cell-wall structure.

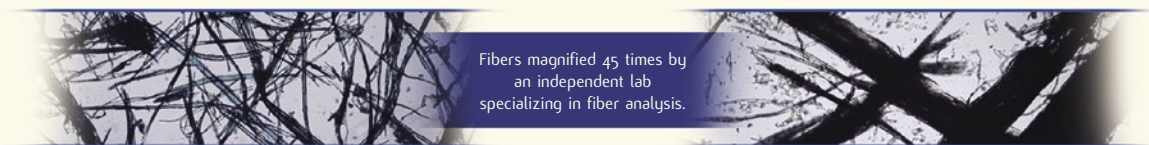
■ UltraGro:

- Increases root mass to improve nutrient and water uptake, giving plants greater stress tolerance
- Promotes production of naturally occurring hormones that enhance the top growth of plants to ensure greater overall soil stabilization
- Promotes microbial activity in the soil for an improved growing environment, better turf establishment and fewer callbacks

The addition of UltraGro to our Terra-Wood™ and Terra-Blend™ hydraulic mulches is designed to deliver optimum performance at a reasonable price – something that has been at the heart of our business since the very beginning.

Here's the Science Behind Your Success

Every Terra-Mulch product is created with expertise in what makes plants grow and unequalled experience in what makes you successful. Our Thermally Refined® wood fiber is a prime example.



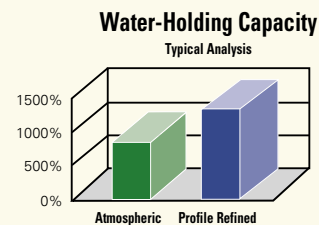
Terra-Mulch's Thermally Refined wood fiber holds 13.5 times its weight in water and improves yield. Maximum water-holding capacity is essential for successful seed germination and plant establishment. Maximum yield is a big help to your bottom line.

Some of our competitors use atmospherically refined wood fiber that results in lower water-holding capacity and lower yields. No wonder it takes so many extra bales of their mulch to equal the performance of Terra-Mulch.

The process that produces Thermally Refined wood fiber involves using heat and pressure to break wood down into more fibrous material with greater surface area, resulting in mulch that:

- Reduces the number of bales you buy and load
- Reduces callbacks due to washouts
- Reduces callbacks due to poor turf establishment
- Eliminates hose clogs from the coarse fiber found in competitive mulches
- Lowers your total project cost

Ask your Terra-Mulch representative to conduct a side-by-side demonstration. You'll have no doubt that Thermally Refined fiber simply performs better.



Thermally Refined wood fiber holds up to 50% more water than atmospherically refined wood fiber – a critical factor in seed germination.



We've Got the Mulch You Need—Whatever The Job

Terra-Mulch® products are ideal for a variety of applications, including turf establishment, golf courses, landfills, highway work, reclamation projects, airports and recreational areas. Each has undergone thorough university evaluation and testing. Each can be customized to meet the unique challenges of virtually any site you face.

Convenient 50-lb Bales

BFM



- Hydro-Blanket® BFM (Bonded Fiber Matrix) from Profile Products is available for your toughest jobs, delivering a much higher level of performance than any standard hydraulic mulch on the market today.
- Hydro-Blanket BFM is ideal for projects where blankets are impractical and/or too expensive, and conventional hydraulic mulches are ineffective.
- Independent testing and years in the field prove Hydro-Blanket is effective on the steepest, roughest sites — a critical consideration for Phase II compliance.
- Produced from Thermally Refined® wood fiber and combined with 10% cross-linked hydro-colloid tackifier, Hydro-Blanket applies more easily, promotes faster germination and minimizes sediment and water runoff. Its performance is comparable to blankets, yet its cost is significantly less.

Wood



Terra-Wood and Terra-Wood with Tack products are ideal choices for critical sites with up to 2:1 slopes. Contractors report that our Thermally Refined fiber delivers up to 30% more yield than competitive products, which means money in their pockets.

Terra-Wood™ with UltraGro™

- Contains 100% of the highest quality wood fiber.
- Now with UltraGro, a proprietary biostimulant to ensure healthy growth even in harsh environments.
- Thermally Refined wood fiber delivers up to 50% more water-holding capacity than atmospherically refined wood mulches.

Terra-Wood™ with Tacking Agent 3®

- 100% wood fiber just like Terra-Wood but with the industry's leading tackifier, Tacking Agent 3, included.
- Tacking Agent 3 is a three-dimensional blend of polymers and guar gum.
- Eliminates the extra step and mess of field-mixing tackifier.

Blend



Terra-Blend and Terra-Blend with Tack combine 100% Thermally Refined wood fiber with the highest quality cellulose mulch in the industry.

- Delivers up to 15% greater yield to contractors versus competitive blend products.
- Covers up to 20% more ground than cellulose and provides superior erosion control and more complete germination without a big jump in price.

Terra-Blend™ with UltraGro™

- The ultimate in blend performance.
- Now with UltraGro, a proprietary biostimulant to ensure healthy growth even in harsh environments.

Terra-Blend™ with Tacking Agent 3®

- Same quality wood and cellulose blend as Terra-Blend but with Tacking Agent 3, the industry's leading tackifier.
- Tacking Agent 3 is a three-dimensional blend of polymers and guar gum.
- Eliminates the extra step and mess of field-mixing tackifier.

Terra-Mulch® Cellulose Terra-Mulch® Cellulose with Tack

Cellulose

- Exclusive defibration process and new manufacturing process improves water-holding capacity by 22%.
- Less percentage of fines greatly reduces maché effect.
- High-quality, clean 100% cellulose fiber mixes in water at an accelerated rate and stays in suspension for more uniform consistency.
- Provides erosion control that is superior to straw for nearly the same cost — making them ideal for general seeding.
- Darker, richer green color than competing brands gives your work a more professional look from the very beginning.
- Shoots great, allowing hydraulic machinery to run efficiently while providing excellent ground coverage.

Terra-Mulch® Cellulose with Tacking Agent 3®

- Pre-blended with Tacking Agent 3 to increase protection from seed washout and erosion.
- Tacking Agent 3 is a three-dimensional blend of polymers and guar gum.
- Eliminates the extra step and mess of field-mixing tackifier.



Don't Take Chances with Phase II Noncompliance

The National Pollution Discharge Elimination System (NPDES) Phase II storm water regulations are a huge challenge. Noncompliance with the Clean Water Act is subject to administrative orders, civil actions and/or criminal prosecutions on federal, state, county and/or local levels. Terra-Mulch® can help ensure you'll be in compliance by helping you calculate the Revised Universal Soil Loss Equation (RUSLE) and select the most effective mulches for your site. Don't leave anything to chance. Ask the experts from Terra-Mulch.



A site like this could result in tens of thousands of dollars in fines today.

We Make it Easy to Select the Right Mulch

Terra-Mulch offers a broad range of hydraulic mulches for today's hydro-seeding professional. Each has properties and performance characteristics that make it uniquely suited to specific types of sites. You know it's the right mulch because it's Terra-Mulch.

Product	Application	Slope	Continuous Max. Slope Length* (without slope interruption devices)	Conditions	Rate Lb/Acre
HYDRO-BLANKET® BFM	Erosion Control	≤ 1:1 ≤ 2:1 ≤ 3:1	75 ft	Critical Sites	4,000 3,500 3,000
TERRA-WOOD™ WITH TACKING AGENT 3®	Erosion Control	≤ 2:1 ≤ 3:1 ≤ 4:1	30 ft	Moderate	3,000 2,500 1,500 – 2,000
TERRA-WOOD™	General Seeding	≤ 2:1 ≤ 3:1 ≤ 4:1	28 ft	Moderate	3,000 2,500 1,500 – 2,000
TERRA-BLEND™ WITH TACKING AGENT 3®	General Seeding	≤ 3:1 ≤ 4:1	25 ft	Mild	2,500 1,500 – 2,000
TERRA-BLEND™	General Seeding	≤ 3:1 ≤ 4:1	23 ft	Mild	2,500 1,500 – 2,000
CELLULOSE WITH TACKING AGENT 3®	General Seeding	≤ 4:1	20 ft	Mild	1,500 – 2,000
CELLULOSE	General Seeding/ Reclamation/ Straw Tacking	≤ 4:1	18 ft	Mild	1,500 – 2,000

*Maximum slope length is based on a 4H:1V slope (BFM is 3H:1V). For applications on steeper slopes, the maximum slope length may need to be reduced based on actual site conditions.

We Provide You with Every Option You Need

No matter what the site, job or equipment, if you need bare soil covered, Terra-Mulch® has the material best suited to the application.



Replace Sod and Get the Fastest Germination Possible with Futerra® Revegetative Blankets

- Futerra® F4 Netless® and EnviroNet™ blankets are proven to keep soil in place with 99.9% effectiveness, providing better slope protection with faster, thicker vegetative establishment than traditional blankets and nets
- Designed to minimize danger to wildlife or maintenance equipment
- Costs less than half the price of installed sod, including seed and fertilizer
- Takes just one man-hour to lay 3,000 square feet of Futerra versus one man-hour to lay 500 square feet of sod
- Improves site logistics—one truckload of Futerra EnviroNet covers eight acres, compared to a truckload of sod that only covers one-quarter of an acre

Superior Germination

Futerra® Revegetative Blankets are ideally suited for areas where conventional practices are inadequate for establishing rapid and uniform vegetation. Through its patented design, Futerra is capable of absorbing and holding more water, thereby creating a moisture reservoir that ensures improved germination—nearly double that of straw!

So Effective, It's Almost Perfect

	C-Factor ¹	Effectiveness Rating	Soil Loss/Plot ²
Futerra® F4 Netless®	0.001	99.9%	0.4 lb
Futerra® EnviroNet™	0.003	99.7%	1.4 lb
Single-Net Straw Blanket	0.073	92.7%	28.9 lb
Single-Net Excelsior Blanket	0.075	92.5%	29.8 lb
Bare Soil Control	1.000	0.0%	397.0 lb

¹Test Conditions —
UWRL Rainfall Simulator
Slope Gradient — 2.5H:1V
Soil Type — sandy loam
Rainfall Event — 5"/hr
Test Duration — 1 hr

²Plot size 4' by 19.5'

Get all the Facts

Log on to
www.profileproducts.com.



Save Time and Increase Performance with Jet Spray® Pourable Mulch Flakes—with FiberMax™

- Holds more water – meaning enhanced seed germination and more effective erosion control
- Delivers 50% more FiberMax™ than before – offering greater yield and better coverage for lower overall cost
- Flocculating tackifier helps increase yield and gives the mulch matrix greater loft – providing increased water-holding capacity and a stronger bond
- Designed specifically for the smaller tank openings of jet-agitated hydraulic machines – allowing up to 90% faster loads than traditional hydraulic mulch



Cover the Small Jobs Completely with Seed Aide®

- Expanding cellulose/wood fiber mulch granules are ideal for small areas
- Can be applied with a high volume drop spreader, large-opening broadcast spreader or by hand
- Used as a leave behind for touch ups after hydro-seeding, it can eliminate callbacks
- Tests prove that its granular properties and texture result in greater water absorption and soil coverage than competing brands, which provides superior seed protection
- Organic tackifier reduces soil erosion, water runoff and seed washout

Put Added Value in Every Tank with ProPlus® Hydro Mulch® Solutions



Terra-Mulch® offers you the industry's most comprehensive array of leading-edge hydraulic mulch additives so you can achieve maximum performance for virtually any application. These accessory products are specifically designed to solve the type of seeding challenges that contractors face every day. Your Terra-Mulch distributor can help you analyze site conditions and recommend the best products for the job.

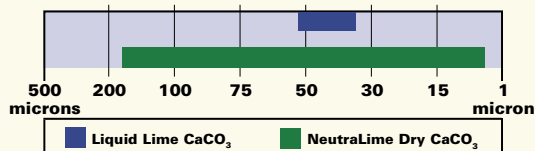
Soil Amendments

- NEW** • **Aqua-pHix™ Hydro** – Proprietary liquid formula of non-hazardous and non-corrosive, self buffering, chelated organic and inorganic acids that immediately lower pH of alkaline soils. Dramatically enhances seed germination.
Packaging: 2-2.5 gal jugs per case
- NEW** • **JumpStart™** – Proprietary liquid reformulation with long-term penetrating agent added to humic acid and beneficial bacteria solution. Proven to promote faster germination and vegetation establishment.
Packaging: 2-2.5 gal jugs per case
- NEW** • **BioPrime™** – Granular formulation containing biostimulant, 18-0-0 slow release nitrogen, humic acid and Endo Mycorrhizae. Designed to sustain long-term plant vitality.
Packaging: 40-lb bag
- **NeutraLime™ Dry** – Nothing balances soil pH faster – within 6-10 days of application – with the added plus of longer control – up to 18 weeks. Contains 50% more active ingredients than liquid lime.
Packaging: 4-10 lb bags per case, 40-lb bag
- **NeutraLime™ Liquid** – Balances soil pH and is effective in 7-10 days.
Packaging: 2-2.5 gal jugs per case
- **JumpStart™ 5** – Jump start turf establishment with the industry's most complete package of growth stimulants and added polymers.
Packaging: 4-10 lb bags per case, 40-lb bag
- **AquaGel™ A, B, C, D** – Four ways to hold 400 times the water in a variety of applications, making it an excellent water management tool.
Packaging: 6-5 lb pails per case (A and C only), 2-16 lb jugs per case, 25-lb bag and 50-lb drum

Fiber Mulch Amendments

- **FiberBond Ultra™** – Enhances the performance of hydraulically applied fiber mulch materials.
Packaging: 4-7.5 lb bags per case

Liquid Lime vs NeutraLime Dry Effectiveness



Graduated particle sizing extends minimum effectiveness from 12 to 18 weeks.

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- **FiberMax™** – Maximize yield and mulch performance with a stronger bond and the added plus of better shooting.
Packaging: 6-5 lb bags per case
- **FiberLock™** – Patented, crimped fibers are your key to increased yield and sure success on the really long slopes.
Packaging: 10-lb case
- **SlikColor™** – The only dye marker with the added plus of a slickifier to improve shooting – now in water soluble bags.
Packaging: 2-11 lb jugs per case, 11-1 lb bags per case (water soluble bags)

Soil Stabilization & Dust Control

- **TackDown™** – The binder you need to make sure you've got the job nailed.
Packaging: 2-2.5 gal jugs per case, 250 gal tote
- **FlocLoc™ (PAM) Dry** – A flocculating soil stabilizer that coagulates suspended soil particles, dropping them from runoff. It reduces soil erosion and improves water infiltration into the seedbed.
Packaging: 6-3 lb jugs per case, 40-lb pail

Tackifiers

- **ConTack®** – 100% guar-based organic tackifier reduces the need for reseeded and minimizes soil erosion by stabilizing mulch and straw. It also helps increase the flow and pumping properties of mulch.
Packaging: 8-5 lb bags per case, 50-lb bag
- **ConTack® AT** – A starch-based agricultural tackifier, ConTack AT is an economical choice for tacking straw or hay mulch to enhance germination by holding seed in place and preventing washouts.
Packaging: 50-lb bag
- **Tacking Agent 3®** – Requires no cure time to be effective! University tests and field use prove it effectively reduces soil erosion and water runoff immediately after hydro-seeding. Also increases the water-holding capacity of all types of hydraulic mulches.
Packaging: 4-8 lb bags per case, 25- and 50-lb bag, 7-3 lb bags per case (water soluble bags)
- **MPT™ Tack** – A combination of poly-acrylamide and hydro-colloid polymers, MPT is highly viscous and dries to form a strong chemical bond. Ideal for fiber mulch binding, straw and hay mulch tacking.
Packaging: 4-12 lb bags per case, 50-lb bag

Please refer to the ProPlus brochure for specific application rates and conditions.