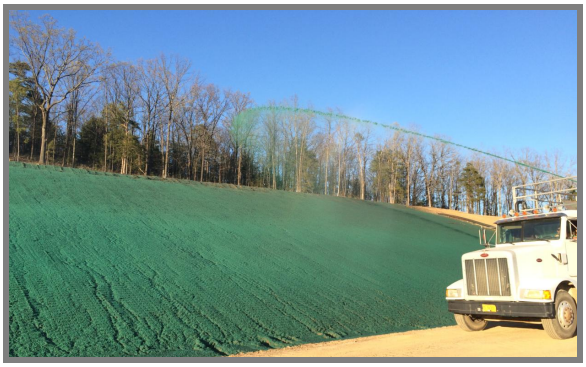
Profile®
Solutions for your Environment™

PROJECT PROFILE	ARKANSAS

Arkansas Highway Department Open Cut Slope Project

March 12, 2016



March 28, 2016
Flexterra installation over ProGanics

July, 2016

Situation

The Arkansas Highway Department was faced with a challenging situation; how to create sustainable vegetation on an open cut slope where organic matter had eroded off the site. Additionally, the soil test showed low pH levels indicating highly acidic conditions, with a high clay composition.

The resident engineer and Department of Transportation wanted another option to help establish vegetation and control erosion. After Profile showed the benefits of ProGanics® Biotic Soil Media™ and Flexterra® HP-FGM™ to the engineer and DOT, it was clear that this was more than just an option, it was an effective solution.

Challenge

- Clay content was 50%, which binds the soil nutrients making it difficult to adjust the pH
- Very low pH level of 4.6
- Low organic matter content of 1.5%
- Highly deficient soils

Solution & Application

- Soil test performed to determine the nutrient value at the site
- Fertilizer (15-30-15)
- JumpStart™ 5 at 80 lbs/acre
- BioPrime® at 80 lbs/acre
- NeutraLime™, pH adjuster, applied at 400 lbs/acre
- ProGanics® BSM™ applied at 4,000 lbs/acre
- Flexterra® HP-FGM™ at 3,500 lbs/acre

Results

The combination of ProGanics to amend the soil and Flexterra to prevent site erosion allowed the perennial seeds to establish quickly and have uniform growth, even with less than optimal rainfall.

ProGanics™ BIOTIC SOIL MEDIA™ Flexterra® HP-FGM™

For help on your next project site, contact Profile® Sales Support at 800-508-8681 or Technical Services at tech@profileproducts.com.

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THE 5 FUNDAMENTALS

A Holistic Approach to Erosion Control and Vegetative Strategies

These five fundamentals take the guesswork out of the crucial decisions that need to be made to ensure project success.

1. Creating Optimal Soil Conditions

Soil testing provides essential information to determine what adjustments, if any, need to be made to assure a more favorable growing environment.

2. Picking the Right Plant Species

It is essential to select plant species that are adapted to project locations, site conditions, intended use and maintenance requirements.

3. Selecting the Correct Erosion Control Material

The correct cover is necessary to protect both seed and soil, taking into account erosion control effectiveness, ability to facilitate growth and functional longevity.

4. Ensuring Proper Installation

Correctly installing these products in accordance with the manufacturer's mixing, application and installation guidelines will maximize their performance.

5. Follow-up Inspection and Maintenance Practices

Monitoring project progress will ensure compliance issues are being addressed. Maintenance may be required to mitigate unexpected challenges.

ProGanics™ BIOTIC SOIL MEDIA™

Increase Organic Matter & Boost Soil Fertility

- Accelerates the development of depleted soils/substrates with low organic matter, low nutrient levels and limited biological activity
- An ideal time and money-saving alternative to topsoil and compost
- Excellent for challenging sites with difficult or limited access, and on steep slopes where topsoil placement is impractical or for when soils are too wet or frozen to dig, transport and spread

Flexterra® HP-FGM™

Absolutely the Best Erosion Control Product Available…PERIOD

- Proven to surpass all hydraulically applied mulch products and turf establishment blankets
- Bonds to soil immediately and is 99% effective in minimizing soil loss
- 1700% water-holding capacity accelerates growth
- Functional longevity of up to 18 months makes it ideal for long-term protection in arid climates and dormant seeding

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