



## Specification Sheet – HydraCM™ Steep Slope Matrix

### DESCRIPTION

The HydraCM™ Steep Slope Matrix shall be a hydraulically-applied mulch composed of a patent-pending blend of mechanically processed straw fibers, reclaimed cotton plant materials, performance-enhancing tackifiers, and other proprietary additives. The HydraCM matrix is designed for soil erosion protection, and establishes an intimate bond upon application with the soil's surface to create a continuous, porous, absorbent, and flexible erosion control matrix that allows for rapid germination and accelerated plant growth.

The all natural fiber mulch shall satisfy the control performance criteria set forth in the Ceriodaphnia dubia, Daphnia magna and Pimephales promelas tests as described in EPA documentation (USEPA 2002) and the Region VIII Whole Effluent Toxics Control Program (EPA Region VIII 1997); therefore illustrating no significant toxicity for the mulch.

Composition: All components of the HydraCM matrix shall be pre-packaged by the Manufacturer to assure material performance and in compliance with the following values. Under no circumstances will field mixing of additives or components be accepted.

#### Material Content

|   |            |
|---|------------|
| <b>Mechanically Processed Straw</b>                           | 70% +/- 3% |
| <b>Mechanically Processed Reclaimed Cotton Plant Material</b> | 20% +/- 3% |
| <b>Proprietary Hydro-colloidal Tackifiers and Activators</b>  | 10% +/- 1% |

#### Specifications

|                                 |                                       |
|---------------------------------|---------------------------------------|
| <b>Contents</b>                 | Straw/Reclaimed Cotton Plant Material |
| <b>Packaging</b>                | 50 lbs (23 kg) +/- 3%                 |
| <b>Total Organic Matter</b>     | 90.0% +/- 4%                          |
| <b>Carbon to Nitrogen Ratio</b> | < 50:1*                               |
| <b>Moisture Content</b>         | 12% +/- 3%                            |
| <b>Color</b>                    | Natural Green                         |

\*Analysis concluded from a representative sample as the C:N ratio may vary from sample to sample

| Index Property                | Test Method  | Typical                   |
|-------------------------------|--------------|---------------------------|
| <b>Thickness</b>              | ASTM D6566   | 0.19 in.<br>(4.8 mm)      |
| <b>Mass/Unit Area</b>         | ASTM D6525   | 13.01 oz/sy<br>(442 g/sm) |
| <b>Ground Cover</b>           | ASTM D6567   | 98.7%                     |
| <b>Organic Matter</b>         | ASTM D2974   | 93.64%                    |
| <b>Water Holding Capacity</b> | ASTM D7367   | 820%                      |
| <b>Acute Toxicity</b>         | EPA 2021.0-1 | Non-Toxic                 |
| <b>Functional Longevity</b>   | Observed     | Up to 6 months            |
| <b>Cure Time</b>              | Observed     | No cure time              |
| <b>Color</b>                  | Observed     | Green                     |

#### Performance Property Test Method Typical

|                                  |             |         |
|----------------------------------|-------------|---------|
| <b>Rainfall Event (R-factor)</b> | ASTM D6459* | 231 < R |
| <b>Cover Factor</b>              | ASTM D6459* | 0.003   |
| <b>Percent Effectiveness</b>     | ASTM D6459* | 99.7%   |
| <b>Vegetation Establishment</b>  | ASTM D7322  | >450%   |

\* Modified ASTM D6459 (Standard Test Method for Determination of Erosion Control Blankets (ECB) Performance in Protecting Hillslopes from Rainfall-Induced Erosion)

#### Packaging

Bags are filled with 50 lbs (23 kg) of material and packaged in a UV and weather-resistant bag. Each pallet contains 40 bags or one ton of material with a plastic cover for enhanced protection from rain and UV rays.

NOTE: Not for use in channels, swales, or other areas where concentrated flows are anticipated, unless installed in conjunction with a temporary erosion control blanket or permanent turf reinforcement mat. HydraCM may be applied on saturated surfaces. Do not allow foot traffic or grazing on treated areas until vegetated. Be cautious of slippery surfaces while applying. Warning: Do not store near an open flame or heat source. Use caution when stacking units. See Installation guide for more detailed information regarding application of the HydraCM product.



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