

Material and Performance Specification HydraCX² Extreme Slope Matrix

Description
<p>The North American Green HydraCX² Extreme 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 HydraCX² matrix requires no curing 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.</p> <p>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.</p> <p>Composition: All components of the HydraCX² 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.</p>

Material Content	
Mechanically Processed Straw	65% ± 3%
Mechanically Processed Reclaimed Cotton Plant Material	25% ± 3%
Proprietary Hydro-colloidal Tackifiers and Activators	10% ± 1%

Specifications	
Contents	Straw/Reclaimed Cotton Plant Material
Packaging	50 lbs (23 kg) ± 3%
Total Organic Matter	90.0% ± 4%
Carbon to Nitrogen Ratio	< 38:1*
Moisture Content	12% ± 3%
Color	Natural Green
*Analysis concluded from a representative sample as the C:N ratio may vary from sample to sample	

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. HydraCX² 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 HydraCX².

Index Property	Test Method	Typical
Thickness	ASTM D6566	0.18 in (4.6 mm)
Mass/Unit Area	ASTM D6525	13.45 oz/yd ² (457 g/m ²)
Ground Cover	ASTM D6567	97.9%
Organic Matter	ASTM D2974	93.64%
Water Holding Capacity	ASTM D7367	880%
Acute Toxicity	EPA 2021.0-1	Non-Toxic
Functional Longevity	Observed	Up to 12 months
Cure Time	Observed	No Cure Time
Color	Observed	Green

Performance Property	Test Method	Typical
Rainfall Event (R-factor)	ASTM D6459*	231 < R
Cover Factor	ASTM D6459*	0.001
Percent Effectiveness	ASTM D6459*	99.9%
Vegetation Establishment	ASTM D7322	>550%

* 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.

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