



## Specification Sheet – HydraCX™ Extreme Slope Matrix

### DESCRIPTION

The HydraCX 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 HydraCX 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.

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 HydraCX 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>	65% +/- 3%
<b>Mechanically Processed Reclaimed Cotton Plant Material</b>	25% +/- 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>	< 38:1*
<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	0.18 in. (4.6 mm)
<b>Mass/Unit Area</b>	ASTM D6525	13.45 oz/sy (457 g/sm)
<b>Ground Cover</b>	ASTM D6567	97.9%
<b>Organic Matter</b>	ASTM D2974	93.64%
<b>Water Holding Capacity</b>	ASTM D7367	880%
<b>Acute Toxicity</b>	EPA 2021.0-1	Non-Toxic
<b>Functional Longevity</b>	Observed	Up to 12 months
<b>Cure Time</b>	Observed	No cure time
<b>Color</b>	Observed	Green

### Performance Property Test Method Typical

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

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. HydraCX 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 HydraCX product.

**Tensar**®

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Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby executed. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. **This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to January 1, 2012.**

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