NORTH AMERICAN GREEN®

A tensar. Company

SUPPLEMENTAL SPECIFICATION

HydraCX^2

Extreme Slope Matrix

The North American Green HydraCX^2 Extreme Slope Matrix shall be a hydraulically-applied matrix composed of a patent-pending blend of mechanically processed straw fibers, reclaimed cotton plant material, performance-enhancing tackifiers, and other proprietary additives. The HydraCX^2 mulch 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 HydraCX^2 mulch is biodegradable and consists of approximately 90% organic matter.

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 NPDES Whole Effluent Toxics Control Program (EPA Region VIII 1997); therefore illustrating no significant toxicity for the mulch.

Property	Test Method	Typical
Thickness	ASTM D6566	0.18 in (4.6 mm)
Mass per Unit Area	ASTM D6525	13.45 oz/yd^2 (457 g/m^2)
Ground Cover	ASTM D6567	97.9%
Stiffness	ASTM D6575	612 mg/cm
Cure Time	Observed	No cure time
Color	Observed	Green
Performance		
Cover Factor (6 in/ hr event)	ASTM D6459*	0.002*
Percent Effectiveness	ASTM D6459*	99.8%*
Vegetation Establishment	ECTC Test Method #4	500%

* Modified ASTM D 6459 (Standard Test Method for Determination of Erosion Control Blanket (ECB) Performance in Protecting Hillslopes from Rainfall-Induced Erosion) conducted by the Soil Erosion Research Laboratory (SERL) at San Diego State University in December, 2007. Test beds utilized by SERL measure 2m x 8m.

Manufacturing: HydraCX^2 is manufactured and privately labeled for North American Green by Mulch & Seed Innovations, LLC. HydraCX^2 is manufactured within a set of quality guidelines established only after years of product development and rigorous testing in varying conditions.