

Product ID: 8134-7-39 Initiation Date: January 2014 Revision Date: January 20, 2014 Expiry Date: January 2017

# **Product Evaluation**

### RE: Review of HY-C4 High Performance Straw & Cotton Plant Material Hydraulically – Applied Mulch

#### **PRODUCT**

HY-C4 High Performance Straw & Cotton Plant Material Hydraulically – Applied Mulch. This product is manufactured by East Coast Erosion Blankets and supplier is Layfield Geosynthetics & Industrial Fabrics, Edmonton.

#### VENDOR CLAIMS AND INFORMATION

**CLAIMS:** HY-C4 creates a uniform protective layer that prevents raindrop splash erosion, absorbs rainfall and slowly releases the moisture to provide excellent conditions for seed germination and rapid vegetative establishment. HY-C4 is suitable for establishing vegetation on 1:1 or greater slopes with an estimated functional longevity of 12 months. HY-C4 requires no curing for soil erosion protection. Product web link <a href="http://www.nchydroseeding.com/Documents/HY-C4%20Material%20specifcation.pdf">http://www.nchydroseeding.com/Documents/HY-C4%20Material%20specifcation.pdf</a>

**DESCRIPTION:** HY-C4 is hydraulically applied slurry composed of mechanically processed straw fibers, reclaimed cotton plant materials, performance enhancing tackifiers, and other proprietary additives.

**POTENTIAL USAGE:** Erosion Control for the slopes 1:1 or greater where vegetation growth is expected. It should not be applied in channels, swales or areas of concentrated flow unless accompanied with a Rolled Erosion Control Products.

**STANDARDS:** ASTM D6459 (modified) - Large-scale testing completed East Coast Erosion Blankets provides mixing and application rate instructions Slope of ≤4:1, Application Rate of 2800 kg/ha - Slope of ≥4:1 < 3:1, Application Rate of 3400 kg/ha Slope of ≥3:1 < 2:1, Application Rate of 3900 kg/ha - Slope of ≥2:1 < 1:1, Application Rate of 4500 kg/ha Slope of 1:1, Application Rate of 5000 kg/ha

### ALBERTA TRANSPORTATION COMMENTS

**EXPERIENCE:** Alberta Transportation has no experience with this product.

## **APPLICATION STANDARDS:**

Alberta Transportation has standard specifications for seeding and fertilizing - Erosion and Sediment Control Manual 2011 BMPs 22 Seeding, 23 Mulching, 24a Hydro-seeding and 24b Hydro-mulching. **RECOMMENDATIONS:** 

HY – C4 to be listed as a Potential Product under Alberta Transportation Products List, Erosion Control – Hydraulic Erosion Control Product – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

# TRIAL PROJECTS

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