

Material Specification

HY-C4 - Ultra-Performance Straw & Cotton Plant Material Hydraulically-Applied Mulch

Description:

East Coast’s GroundControl HY-C4 is a hydraulically applied slurry composed of a patented blend of mechanically processed straw fibers, reclaimed cotton plant materials, performance enhancing tackifiers, and other proprietary additives. GroundControl HY-C4 requires no curing for soil erosion protection. An intimate bond is established with the soil’s surface to create a continuous, porous, absorbent and flexible erosion control matrix allowing for rapid germination and accelerated plant growth. GroundControl 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. GroundControl HY-C4 is suitable for establishing vegetation of 1:1 or greater slopes with an estimated functional longevity of 12 months.

Material Content

Mechanically Processed Straw:	65% ± 3%
Mechanically Processed Reclaimed Cotton Plant Material:	25% ± 3%
Proprietary Blend of Tackifiers, Activators and Additives:	10% ± 1%

Specifications

Content:	Straw/Reclaimed Cotton Plant Materials	
Total Organic Matter:	90	
Carbon to Nitrogen Ratio:	39 : 1	
Moisture Content:	12% ± 3%	
Color:	Natural Green	
pH (% wet basis):	6.6	
Light Penetration:	< 2	
C-Factor:	0.001	

Performance Values

Rainfall Event (R-Factor):	231.00
Cover Factor:	0.00
Percent Effectiveness:	99.90 %
Vegetation Establishment:	> 550 %

Packaging

Bag Size:	17" x 9" x 26"
Bag Weight:	50 lbs (22.65 kg)
Pallet:	40 bags
Full Truck:	880 bags

Slope Condition	Rate (lbs./acre)	Rate (kg/ha)
≤4:1	2500	2800
≤4:1<3:1	3000	3400
≥3:1<2:1	3,500	3,900
2:1	4,000	4,500
≥2:1≤1:1	4,500	5,100
1:1	N/A	N/A

Index Properties Test Method Typical Values

Mass Per Unit Area:	ASTM D6566	13.0
Thickness:	ASTM D6525	0.18 in. (4.6mm)
Ground Cover:	ASTM D6567	97.70 %
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 (Observed)



Mixing and Application:

First fill tank of a mechanically agitated hydroseeding machine with sufficient water to suspend seed and fertilizers. Next add all soil amendments (seed, fertilizer, etc.). Continue adding water slowly while adding the GroundControl HY-C4 Mulch at a steady rate. Consult application and loading charts to determine the proper application rates. Mix at a rate of 50 lbs of GroundControl HY-C4 Mulch per 100 gallons of water. Confirm loading rates with equipment manufacturer. All mulch should be loaded when the tank is approximately ¾ full. Agitate for a minimum of ten minutes after adding the last amount of the mulch. For machines equipped with variable speed agitation, bring agitator to a slow roll before pumping while keeping engine RPMs high. Next apply in a uniform layer from two opposing directions to ensure complete soil coverage. Irregular surfaces may need slightly higher application rates to obtain adequate coverage. Apply over properly prepared seedbed. **Do not apply in channels, swales, or areas of concentrated flow unless accompanied with a Rolled Erosion Control Product**.

Another Product From:



The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly, or indirectly for failure of this product. Current revision superseded all previous version for the product.