



Soil Stabilization Material/ Mulching
Astro-Mulch Plus Tackifier
 Hydraulic Erosion Control Product (HECP)

Product Data Sheet

Product Description

A mulch and soil stabilizer used in hydraulic seeding and erosion control consisting of a special blend of selected cellulosic fibers. The fibers are processed through special grinding and processing equipment to produce fiber lengths required for reinforcing and stabilizing the mulch and soil. Special chemicals are added during manufacture to produce a green color and rapid fiber dispersion when added to water to produce a uniform slurry having excellent spraying and pumping characteristics. An organic polymer base tackifier is added during manufacture at the rate of 3% by weight.

Use

Astro-Mulch Plus Tackifier is used for stabilizing soils and facilitating the growth of grass. It is applied with hydroseeding equipment.



Classification Specification

Property	Test Method	Test Value
Physical		
Mass per unit Area	ASTM D6566	7.18 oz/yd ²
Water Holding Capacity	ASTM D7367	1432%
Material Color	Observed	Green
Ground Cover	ASTM D6567	99.7%
Performance		
Cover Factor	ASTM D6459	0.027
% Effectiveness	ASTM D6459	97.3%
Functional Longevity	Observed	3-6 months
Vegetation Establishment	ASTM D7322	Pass

Tests performed at 2000lb/acre application rate.

* Index and large scale testing performed through the AASHTO Product Evaluation & Audit Solutions.

* "C" Factor calculated as ratio of soil loss from HECP protected slope to ratio of soil loss from unprotected slope based on large-scale testing.

* % effectiveness is calculated as 1 minus C Factor multiplied by 100.

*Functional Longevity, a manufacturer's estimated time period, based upon field observations, that a material can be anticipated to provide erosion control as influenced by its composition, site specific conditions and time of year installed.

*Vegetation establishment is reported as outlined in ASTM D 7322 as pass/fail. If percent germination improvement is >100%, a pass is reported. If percent germination is <100%, a fail is reported.

Manufactured by Thermo-Kool of Alaska at 4191 E. Dimond Way, Wasilla, AK 99645

Any questions, please call: 907-376-3644 or visit our website: www.thermo-koolofalaska.com

The Information and suggestions contained herein are believed to be accurate based upon our current knowledge and experience. However, such information and suggestions may not be pertinent, suitable or complete to any particular construction, substrate application, application process or conditions. Seller hereby disclaims all expressed and implied warranties of merchantability and fitness for a particular purpose. It shall be buyer's sole responsibility to ascertain suitability of any mentioned products and completeness of information and/or suggestions for its or its customers' use or uses.



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Installation:

Loading procedure for hydroseeding machines

Please refer to the equipment manufacturer's loading instructions

Applying HECP

For HECP application rates, coverages, and amounts needed per tank size, please follow the application rate chart below.

Astro-Mulch + Tackifier Application Rates

SLOPE	RECOMMENDED RATE	TANK SIZE	MULCH		COVERAGE	
			GAL.	LBS	BAGS PER TANK	ACRES
Less than 3:1 slope	1500 lbs per acre	3000	1500	30	1	
		2500	1250	25	0.83	
		1500	750	15	0.5	
		1000	500	10	0.33	
		500	250	5	0.17	
3:1 to 2:1 Slope	2000 lbs per acre	3000	1500	30	0.75	
		2500	1250	25	0.63	
		1500	750	15	0.38	
		1000	500	10	0.25	
		500	250	5	0.13	
Greater than 2:1 Slope	2500 lbs per acre	3000	1500	30	0.6	
		2500	1250	25	0.5	
		1500	750	15	0.3	
		1000	500	10	0.2	
		500	250	5	0.1	

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