



**HIGH PERFORMANCE TACKIFIER**

**PRODUCT DESCRIPTION**

A premium organic *Hydro seeding Tackifier*, **NaturalTac™** provides a valuable binding and lubricating agent for use with hydraulically applied seed and hydro mulching operations. Tackifiers promote smooth operation of hydraulic seeding equipment while effectively holding loose straw mulches on the ground. **NaturalTac** tackifier can also provide a short-term, cost effective dust control solution. **NaturalTac** allows for greater spray distance, while improving fiber dispersal on soil contact. This produces a uniform erosion resistant cover and holds seed in place until vegetation grows and stabilizes. **NaturalTac** is ideal for projects where the use of natural biodegradable and organic products free of toxic chemicals and harmful substances are preferred. It is environmentally safe to plant and animal life. **NaturalTac** may be utilized with **PermaMatrix®** or as a stand-alone over-spray for dust control.

**APPLICATION GUIDELINES**

General recommended use of NaturalTac is 1 pound per bag of PermaMatrix to improve viscosity of the slurry and provide binding capacity. Actual use will vary by severity of slope product is applied to in accordance with the usage chart below.

Higher concentrations may be used with equipment capable of mixing and pumping higher viscosity.

NaturalTac reduces pumping friction and improves spray patterns due to its unique polymer properties.

**GENERAL USAGE RATES PER ACRE**

<i>Slope</i>	<i>Flat</i>	<i>4:1</i>	<i>3:1</i>	<i>2:1</i>	<i>1:1</i>
<b>LB/BAG OF PERMAMATRIX</b>	.5	.75	1	1.25	1.5
<b>LB/ACRE STAND ALONE</b>	15 – 40	40 – 60	60 – 80	80 – 120	120 - 220

**PACKAGING**

NaturalTac is packaged in 40 pound boxes, with 4 bags of 10# each.

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**Natural Tac™** is an organic Polysaccharides starch based biopolymer. A natural compound that is found in most living things, Polysaccharides contain compounds such as cellulose that are often packed together to form a ridged structure and are soluble in water making a paste. Microbes in the soil readily consume these organic compounds transforming them in to simple sugars and carbohydrates. Studies have shown that simple sugars can be a natural deterrent to fast growing annual weeds. These simple sugars are an innovative alternative to herbicides and curb one of agriculture's costly scourges – annual weeds. In a three year project by researchers from Charles Sturt University's Institute for Land, Water and Society, sugar spread on plots was found to effectively inhibit or starve the growth of annual weeds, making way for the native grasslands to flourish. **PermaMatrix®** combination with **Natural Tac™** goal is to work out the best methods for re-establishing a native ecosystem that is diverse, self-sustaining and resistant to invasion by weeds.

The photos below show **Natural Tac™** on the left in comparison to Guar based tackifier in the middle and no tackifier on the far right. **Natural Tac™** shows superior holding ability and increased moisture retention.

