

BONDED FIBER MATRIX FORMULA

**1
STEP
PRODUCT**

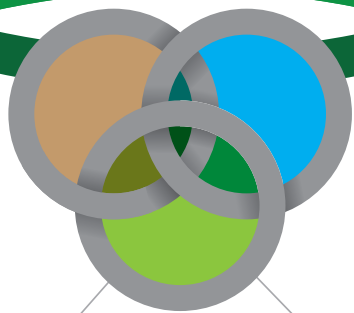
ALL IN 1... ...another innovative hydroseeding product from HydroStraw

TOPSOIL ALTERNATIVE



- Micronized Natural Fertilizer
- Biological Inoculant Food System
- Soil Building Attributes to Rejuvenate the Soil
- Designed for Disturbed Sites
- Biotic Soil Matrix Designed for Low Organic/Nutrient Sites

SOIL HEALTH 3 ELEMENTS OF HEALTHY SOIL ALL IN 1



PHYSICAL

- Mulching, Soil Cover
- Erosion Control
- Good Soil Texture
- Lack of Compaction
- Water Movement
- Vegetation & Roots

BIOLOGICAL

- Increase Soil Life
- Biological System
- Enhance Nutrients Cycling
- Assist Plant Nutrient Uptake
- Building Soil Organic Matter
- Restoring Soil Glue - Glomalin

CHEMICAL

- Balance Nutrients
- N-P-K
- Manage Soil pH
- Manage Soil Salinity



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**1
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TOPSOIL ALTERNATIVE

VEGETATION ESTABLISHMENT MULCH

BONDED FIBER MATRIX FORMULA

DESCRIPTION

HydroStraw® All In 1 addresses the biological, chemical, and physical requirements for stabilizing and restoring vegetation on disturbed soil sites, as well as controlling erosion during vegetation establishment.

HydroStraw® All In 1 consists of heat and mechanically treated wheat straw fibers which are environmentally safe, biodegradable and produced from annually renewable materials combined with a non-toxic brown colorant as an application aid. The porous matrix of the wheat straw encourages water infiltration, enabling the new seedlings to easily pass thru the matrix. The combination of the wheat straw fibers together with our cross-linked high strength polymer binders provides effective erosion prevention and increased vegetation establishment.

HydroStraw® All In 1 includes all the benefits of our HydroStraw BFM plus 25% micronized natural fertilizers, biological inoculants and soil amendments which provide slow release balanced nutrients for the new vegetation and promote the growth of soil microbes.

The biological inoculant system includes beneficial microbes and mycorrhizae fungi that increase the surface absorbing area of the roots 100 to 1,000 times. Beneficial bacteria are also added to jump start the microbial activity of the soil, as these microbes help the seedlings more efficiently absorb nutrients. Some of these bacteria help to release nitrogen, sulfur, phosphorus, and trace elements from soil organic matter, while others break down soil minerals and release potassium, phosphorus, magnesium, calcium and iron. Still other bacterial species make and release natural plant growth hormones, which stimulate root growth. Even though microbes are invisible to the naked eye their effects are far reaching as it relates to restoring soil health.

HydroStraw® All In 1 requires no additional infield mixing, resulting in a more accurately mixed slurry and compliance to application specifications.



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COMPOSITION	
Heat & Mechanically Treated™ (HMT) - wheat straw	50.0%
Micronized Natural Fertilizers / Soil Amendments	25.0%
Moisture	10.0%
Natural jute Fibers	7.5%
Proprietary crosslinked polysaccharide Tackifiers	7.5%

MIXTURE RATES		
Hose Work	75 lbs per 100 gallons	34 kg per 379 Liters
Tower Work	100 lbs per 100 gallons	45 kg per 379 Liters

*Hose Work Rate may vary dependent on hydroseeder type and/or size and length of hose used

SLOPE GRADIENT/CONDITION	LB/ACRE	KG/HECTARE
≤ 3:1	4,000 lbs/ac	4500 kg/ha
≤ 2:1	5000 lbs/ac	5600 kg/ha
≤ 1:1	6000 lbs/ac	6725 kg/ha
Soil Moisture Retention	4000-6000 lbs/ac	4500-6725 kg/ha

FERTILIZER RATES DELIVERED PER ACRE	
Mulch Lbs./Acre	Nutrients Delivered/Acre *
4000 lbs/ac	N (40lbs) P ₂ O ₅ (40lbs) K ₂ O (40lbs)
5000 lbs/ac	N (50lbs) P ₂ O ₅ (50lbs) K ₂ O (50lbs)
6000 lbs/ac	N (60lbs) P ₂ O ₅ (60lbs) K ₂ O (60lbs)

FERTILIZER RATES DELIVERED PER HECTARE	
Mulch Kg/Ha	Nutrients Delivered/Hectare *
4500 kg/ha	N (45kg) P ₂ O ₅ (45kg) K ₂ O (45kg)
5600 kg/ha	N (56kg) P ₂ O ₅ (56kg) K ₂ O (56kg)
6725 kg/ha	N (67kg) P ₂ O ₅ (67kg) K ₂ O (67kg)

* All In 1 contains Micronized Natural Fertilizer and other beneficial components, refer to analysis above.