SOIL STABILIZATION HYDROSEEDING Proper Construction Techniques

Waukesha County Stormwater Conference

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SOIL STABILIZATION

- INTENDED AS SOIL BONDING AGENTS
- PREVENT/MINIMIZE EROSION OF BARE SOIL
- MUST BE HARMLESS TO FISH, WILDLIFE & PLANTS
- NON-TOXIC & NON-COMBUSTIBLE

- THREE TYPES
  - TYPE A – CEMENTITIOUS
  - TYPE B – FLOCCULENT
  - TYPE C - SPRING AND FALL SEEDING

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TYPE A

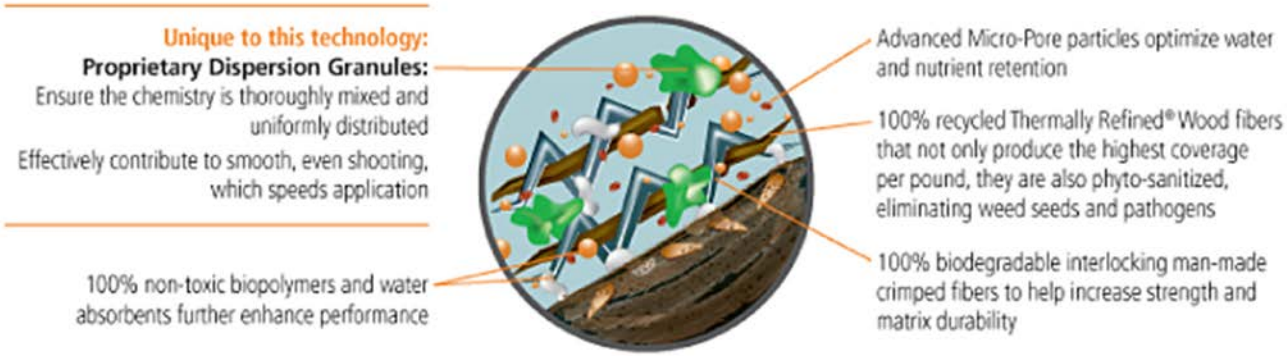
- CEMENTITIOUS SOIL BINDER
- ADDED TO CELLULOSE FIBER MULCH OR
- BONDED FIBER MATRIX – ENGINEERED MATRIX
- FORMS THICK CRUST OR MAT LIKE BARRIER
  - DESIGNED TO CONTROL WATER AND WIND EROSION
- REQUIRED TO SHOW EQUAL VEGETATIVE DENSITY AND SEDIMENTARY LOSS STANDARDS AS CLASS I E-MATS
- INCREASES WATER ABSORPTION

TYPE B

- FLOCCULENT AGENT
- REDUCES ERODIBILITY OF BARE SOILS DURING CONSTRUCTION
- BOND SOIL PARTICLES
- INCREASES PARTICLE SIZE
- REDUCES SOIL MOVEMENT
- INCREASES WATER ABSORPTION

WHY USE HYDROSEEDING

- DIRECT CONTACT & COVERAGE WITH SEED AND SOIL
- EASIER & SAFER APPLICATION
- ENVIRONMENTALLY FRIENDLY



Profile® Engineered Fiber Matrix™ used on CTH Y & I

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COMPLETE SURFACE CONTACT

HYDROSEEDING ON SLOPES DIRECTLY ADHERES TO THE SEED AND SOIL PROVIDING CLOSE TO 100% COVERAGE / BONDING WHEN APPLIED CORRECTLY.

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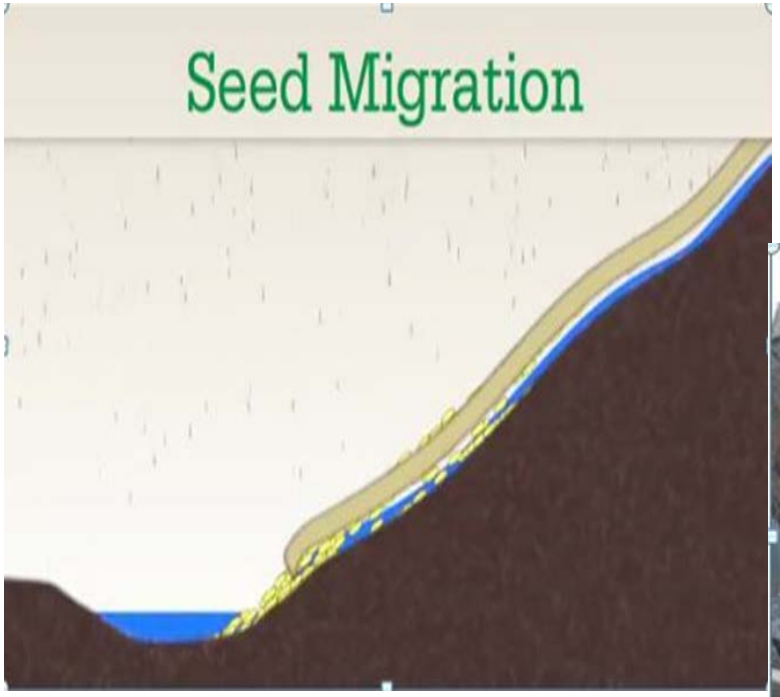
COMPLETE SURFACE CONTACT COMPARED TO EMAT

- POTENTIAL SEED MIGRATION
- TENTING/HOLES
- SOIL PREP TIME



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PROFILES SOLUTIONS

ENVIRONMENTAL SAFETY

- 100% BIODEGRADABLE
- NON-TOXIC
- ENVIRONMENTALLY FRIENDLY

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PROFILES SOLUTIONS

CTH Y & I

- MIXTURE RATIOS
  - WATER TO BALES
- AGITATION TIME
- THICK SLURRY

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APPLICATION
CTH Y & I

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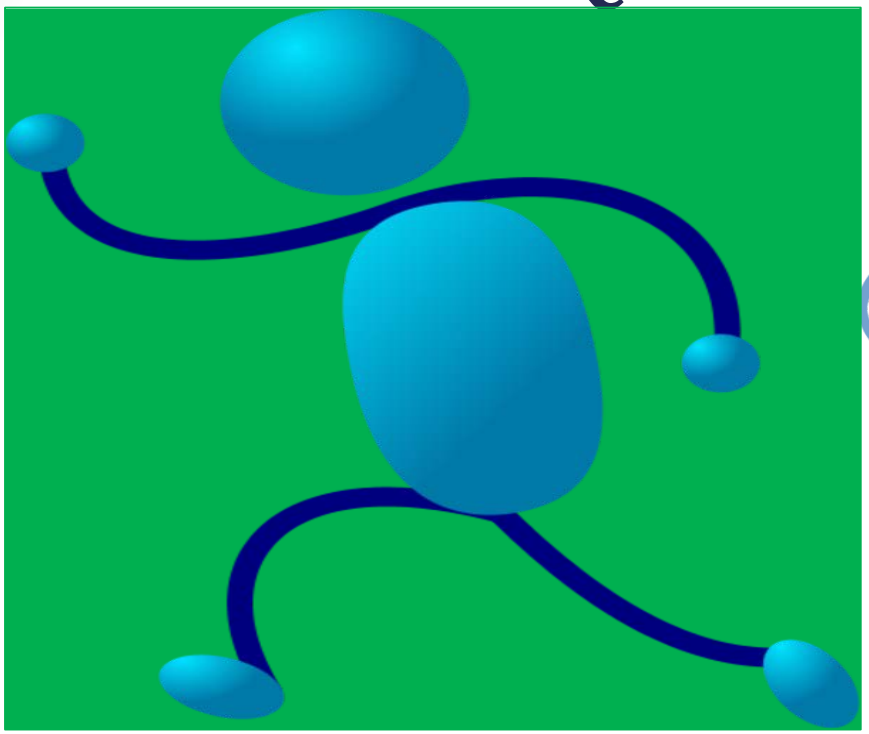
QUESTIONS?



Thank you!

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