



Wood Fiber For Hydraulic Planting

Mat-Fiber® Specifications

PART 1 GENERAL

1.01 SUMMARY

This section specifies hydraulically applied wood fiber mulch composed of long strand, thermally processed wood fibers that allows for rapid germination and accelerated plant growth.

1.02 SUBMITTALS

A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

B. Certifications: Manufacturer shall submit a letter of certification that the products meets or exceeds all physical property, endurance, performance and packaging requirements.

1.03 DELIVERY, STORAGE, AND HANDLING

Deliver materials and products in UVI weather resistant factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

Mat, Inc.

12402 Hwy 2, Floodwood, MN 55736

Phone: 888-477-3028

Fax: 218-476-2039

Mat-NuWood, LLC

811 Price Place, Lenoir, NC 28645

Phone: 828-758-4463

Fax: 828-754-3964

www.matinc.biz

2.02 MATERIALS

Wood fiber mulch for hydraulic planting, Mat-Fiber® as manufactured by Mat, Inc. and/or Mat-NuWood, LLC, shall conform to the following typical property values when applied at a rate of 2,000 lb/ac (3363 kg/ha).

	TEST METHOD	ENGLISH	SI
Physical			
Mass Per Unit Area	ASTM D-6566	6.61 oz/yd ²	224 g/m ²
% Ground Cover	ASTM D-6567	96.9%	96.9%
Water Holding Capacity	ASTM D-7367	1273%	1273%
Color (fugitive dye)	Observed	Green	Green
Endurance			
Functional Longevity	Observed	Up to 3 months	Up to 3 months
Performance			
Germination	ASTM D-7322	713%	713%

2.3 COMPOSITION

All components of the wood fiber mulch shall be pre-packaged by the manufacturer to assure material performance and compliance with the following typical values.

Thermally processed wood fibers (moisture content 12%±3%).....>99%
 Inorganic (ash) content (oven-dried weight basis, max).....1.0%
 pH at 3% consistency in water (average).....4.7

2.04 PACKAGING

Bags: Net Weight – 50 lb.-UVI weather-resistant plastic.

Pallets: Weather-proofed-plastic capped and stretch-wrapped.

PART 3 EXECUTIONS

3.01 SUBSTRATE AND SEEDBED PREPARATION

A. Examine substrates and conditions where materials will be applied. Apply product to geo-technically stable slopes that have been designed and constructed to divert runoff away from the face of the slope. Do not proceed with installation until satisfactory conditions are established.

B. Depending upon project sequencing and intended application, prepare seedbed in compliance with:

Section 01570 – Temporary Erosion and Sediment Control

Section 02300 – Earthwork; Establishment of Subgrade

Section 02370 – Erosion and Sediment Control

Section 02920 – Lawns and Grasses

3.02 MIXING AND APPLICATION

C. Mixing: A mechanically agitated hydraulic-application machine is recommended:

- i. Fill tank to middle of agitator shaft or tank about 1/3 full of water. Turn on pump to wet or purge lines. Begin agitating. Keep adding water slowly while adding Wood Fiber at a steady rate.
- ii. Consult application and loading charts to determine number of bags to be added. Mix at a rate of 50 lbs. of Mat-Fiber® per 100 gallons of water. Contact equipment manufacturer to confirm optimum mixing rates.
- iii. All wood fiber mulch should be loaded when the tank is approximately ¾ full.
- iv. Fertilizer should be added once the tank is nearly full.
- v. Refer to manufacturer guide for more detailed information.

D. Application:

Use a fan-type nozzle (50-degree) whenever possible for best soil surface coverage. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 50 feet (15m). Install materials at the following minimum application rates:

Condition	English	SI
≤3H to 1V or flatter	2000 lb/ac	2240 kg/ha
>3H to 1V and ≤2H to 1V	2500 lb/ac	2800 kg/ha
>2H to 1V and ≤1H to 1V	3000 lb/ac	3360 kg/ha

Increase application rates on highly erosive soils or chiseled disked, furrowed or tracked slopes.

Material should not be applied in channels, swales or other areas where concentrated flows are anticipated, unless installed in conjunction with a temporary erosion control blanket or non-degradable turf reinforcement mat.

After application, thoroughly flush the tank, pumps and hoses to remove all wood fiber mulch. Wash all material from the exterior of the machine and remove any slurry spills. Once dry, the wood fiber mulch will be more difficult to remove.

3.03 CLEANING AND PROTECTION

Clean spills promptly. Advise Owner of methods for protection of treated areas. Do not allow treated areas to be trafficked or subjected to grazing.



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