

HYDROMULCHING

Ref: HM "NM-TV



CCTP BASE

NATURA-MULCH "TOPSOIL" **HYDROMULCHING WITH**

UAB INPUTS

Type :

For average to good soil conditions and favourable conditions & application period (climate / slope > to 5)°

Project with significant environmental constraints.

WARNING :

Each project has its own specific features, which sometimes require the input quantities to be refined. The data contained in this document are averages used on similar projects.

Euro-Tec technicians are at your disposal for further information and to prepare your seed mix - www.euro-tec.fr

Scope of application :

This SCC describes the procedure for revegetation using HYDROMULCHING.

In contrast to HYDROSEEDING, HYDROMULCHING is a technique that prevents seeds and fertilisers from being washed away, but also prevents soil erosion before vegetation has even become established.

HYDROMULCHING, characterised by a quantity of fibrous material (mulch) > 60 gr/m² - 600 kg/ha, also provides a favourable environment for the germination and rapid establishment of the herbaceous layer.

1 - HYDROMULCHING EQUIPMENT

Seeding will be carried out by HYDROMULCHING using specific equipment of the NaturaMulcher or EuroMulcher type, complying with the EC directive defining requirements in terms of health and safety (EU Directive 2023/12/30) and compatibility of worksite equipment with electromagnetic waves (EU Directive 2014/30). ***An EU plate certifying compliance with these directives must be affixed to the equipment, and a certificate of approval must be provided to the SPS (health and safety coordinator).***

The equipment will preferably be fitted with a petrol engine, which is fully in line with a CSR approach that aims to protect people by limiting emissions that are sources of fine particles in particular and by limiting noise.

To ensure a "neat" application that respects the works and collateral facilities, the equipment will also be fitted with a semi-rigid hose reel, a shut-off valve and removable nozzles.

A description of the equipment and the certificate of approval must be attached to the tender.

1-1 Description of supplies 1-

1-1- Seeds

The company will prove the origin of the herbaceous species in the mixtures by means of the certificates of origin issued by the Service Officiel du Contrôle des semences (SOC) and marked on the seed bags.

These certificates, less than 3 months old, indicate for the certified species :

- The supplier's name or code,
- The batch number
- Species and variety

After each job, the contractor must provide the client or project manager with all the information needed to check the quality and quantity of the seeds used (SOC labels).

1-1-2 -Soil conditioners

All fertilisers and soil improvers must comply with EEC regulations.

- Germination activator: VEGE-MAX or equivalent
Concentrated liquid supply humic and lignosulphonic acids. 100% soluble.

VEGE-MAX is a soil improver with a high C/N ratio that maintains, improves and protects the physical and chemical properties and structure of the soil or biological activity.

At the soil-root interface, VEGE-MAX reinforces the clay-humus complex, improving the soil's air/water balance, water retention capacity and cation exchange capacity (CEC).

Composition

Dry matter	21 %
Organic carbon (corg)	10.1 %
Corg/N	20.2
Total potassium oxide (K ₂ O)	5 %
Electrical conductivity	150 mS/m
pH value	13

1-1-3- Hedging products

- NATURA MULCH "Terre Végétale" fibrillar implantation or equivalent

The inputs used in the complex are of French origin and UAB certified: Usable in Organic Agriculture in accordance with regulations (EC) no. 834/2007 and 889/2008. These characteristics will be specified on the description or technical data sheet.

Composition:

Colour		Dye-free brown
Raw material Fibre	Recycled cellulose /	
length	Pinus 2 to 6 mm	
% Cellulose		35 %
Wood fibre		35 %
% Guar binder additive		5 %
% Fertiliser additive 7-2-9 (NFU 44-204) OSYR inside		25 %
% Water retention capacity / dry weight (ASTM D7322)		1050 %
% Moisture content	(+/- 2 % variation)	8 %

1-1-4 Water in the hydraulic mixture

The water intended à the constitution must have chemical characteristics compatible with seed germination and seedling emergence. The Company is responsible for obtaining the necessary authorisations to pump water.

Before the start of the worksite, the Company must provide the project owner, without the latter being held liable, with proof of the pumping authorisations obtained from the competent authorities.

1-2 Hydromulching: Description of implementation

1-2-1 - Dosages per hectare HYDROMULCHING

It is applied in a single pass, with a possible "top-up" 6 or 12 months after the initial HYDROMULCHING.

	First pass
Euro-seeding mixture ref (Kg/ha)	200
VEGE-MAX root activator (L/ha)	20
NATURA-MULCH "TERRE VEGETALE" planting matrix (Bt/ha)	80

1-2-2 Receipt of supplies

To to promote the control of supplies, these must be delivered all at once.

1-2-3 Quantity survey of works to be seeded

The surface area of the sites to be grassed will be agreed before the work begins so that supplies can be delivered all at once.

1-2-4 Guarantee

The guarantee covers the following points:

- Density & uniformity: 1 month after the first germinations, as long as the conditions have been favourable, a seedling count will be carried out - The expected result must be at least 40 u / dm² - The areas counted will be used as a standard to assess uniformity - Any peeling or poorly grown area (excluding mineral areas or areas > 40%) will be repeated - A peeling is considered to be an area where the density of seedlings is less than 20 u / dm².