



FullService

GREEN SOLUTIONS

*Systems, products and know-how
for a better environment.*



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HYDROMAT®

THE INNOVATIVE PROTECTION
AGAINST SOIL EROSION

HYDROMAT®

THE EFFICIENT SOLUTION FOR EROSION CONTROL

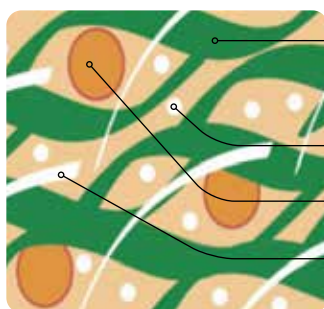
One step application with 100% coverage

HYDROMAT® is a safe and economic erosion-control substitute for traditional blankets, even on steepest slopes. This non-toxic and biodegradable Bonded Fiber Matrix conforms to surface contours, ensuring outstanding seed germination.

Packaged in single bags of blended fibers and bonding ingredients, it is easy to handle, mix and apply.

Composition

| | |
|--------------------------------------|-------------------|
| Virgin thermally-treated wood fibers | 86% |
| Organic binder | 10% |
| Mineral activator | 1% |
| Plastic fibers | 3% |
| Applied color | Green |
| Water holding capacity | 13x of its weight |



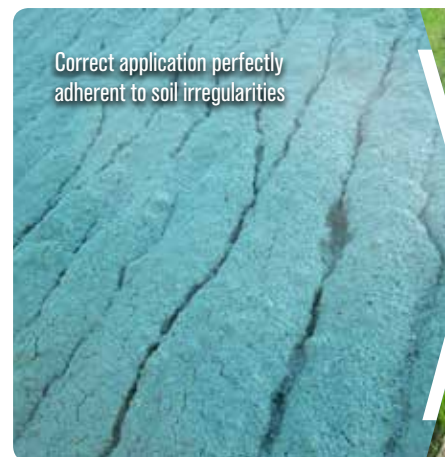
LONG WOOD FIBERS
FOR WATER
ABSORPTION

MINERAL ACTIVATOR

ORGANIC BINDER

PLASTIC FIBERS
THAT CREATE BINDERS

Correct application perfectly
adherent to soil irregularities



HYDROMAT® BENEFITS

- No site preparation needed, which means **reduced labour costs**.
- **Immediately effective** after application and **long-lasting**.
- **Superior performance** compared to traditional erosion control blankets.
- **Fast execution**.
- **Better erosion control**.
- **No residues**.

HYDROMAT® is a high-performance system that outdoes all other erosion control products: hydro-retention is optimized and the vegetation growth is increased.

The Bonded Fiber Matrix creates empty spaces that hold back more water for germination and it improves the oxygen exchange necessary for the vegetation growth.

HYDROMAT® MFL makes sure that the vegetation grows quickly and homogeneously, in order to guarantee a long-lasting erosion control. The erosion control against rain and wind is higher because the Bonded Fiber Matrix allows air and water to penetrate into the soil, keeping seeds and soil in place.

Once vegetation is established, wood fibers decompose enriching the soil underneath.

GERMINATION PHASE

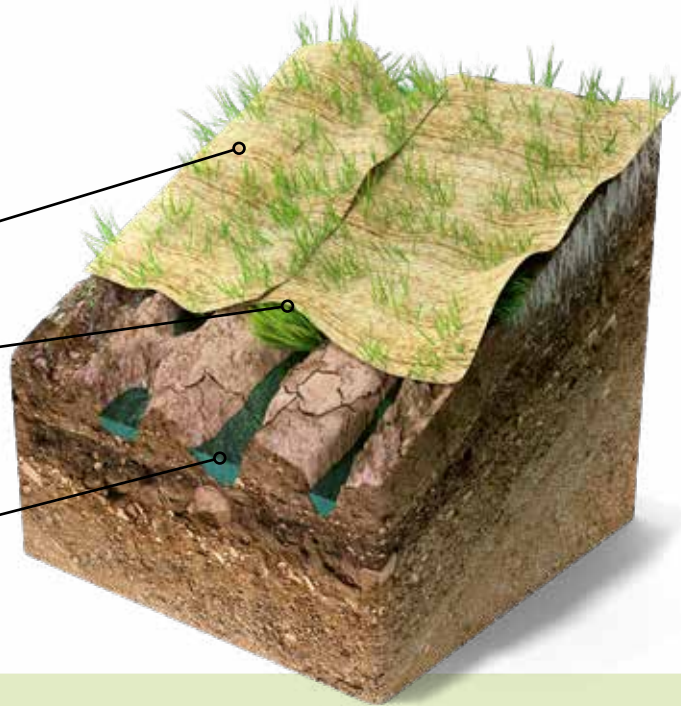


system with erosion control **BIOMAT**

THE BLANKET INSTALLATION
REQUIRES A DIFFICULT, EXPENSIVE
AND TIME-CONSUMING LABOUR

UNEVEN SURFACES, PLANTS,
AND DEBRIS DO NOT ALLOW A PERFECT
ADHERENCE OF THE BLANKET TO THE
SOIL CAUSING SWELLINGS AND SERIOUSLY
COMPROMISING THE RESULTS (GRASSING)

AN IMPERFECT ADHERENCE
TO SOIL FOSTERS UNDER-RILLING
AND EROSION PROBLEMS



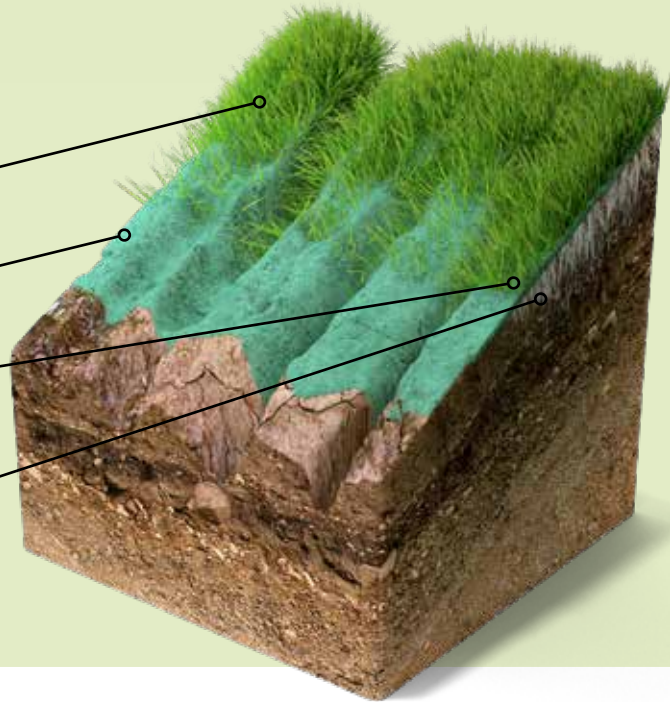
system with **HYDROMAT**

A COMPLETE ONE-STEP COVER EASY TO
APPLY WHILE HYDROSEEDING

LIGHT, MOISTURE, AND PLANTS CAN
PENETRATE THE MATRIX VERY EASILY

THE MATRIX ADHERES TO THE SOIL
SURFACE, PROTECTING AND ELIMINATING
UNDERGROUND WATER RUNOFF

THE MATRIX MINIMIZES THE IMPACT OF
THE RAIN AND IMPROVES GERMINATION
RELEASING MOISTURE SLOWLY



**HYDROMAT® is an innovative
one-step applied product for
an effective protection against
soil erosion.**



COMPARISON TEST

Intervention run at the same time





It reduces Soil Erosion

HYDROMAT® anchors itself to the soil surface and, by drying, it cures to a flexible crust, providing “blanket-type” stability even on steepest slopes.

One Step Erosion Control

HYDROMAT® provides a natural environment that allows the seed to germinate quickly, even in arid climates. Seed and fertilizer may be added to the slurry for a true “One Step Erosion Control”

Reduction of erosion and surface run-off

In a short time, the fibers bind together into a protective carpet, significantly reducing heavy rain effects. Moisture is gradually released to the soil without losing adherence. It prevents erosion better than traditional geotextiles.

Application

HYDROMAT® combines the advantages of hydraulic seeding: fast application and reduced labour costs. Furthermore it can be used in combination with other erosion control systems, so to cover a wide range of conditions.

HYDROMAT® is immediately effective after application and the more it dries, the better the performance. Once sprayed onto the surface, it conforms to the ground and dries to form a flexible matrix. This revolutionary system performs on slopes steeper than 2.5H:1V and, thanks to its technology it can withstand heavy impacts.

HYDROMAT® can be applied with any kind of hydro-seeding equipment with mechanical agitators and the soil to be treated does not need to be prepared.

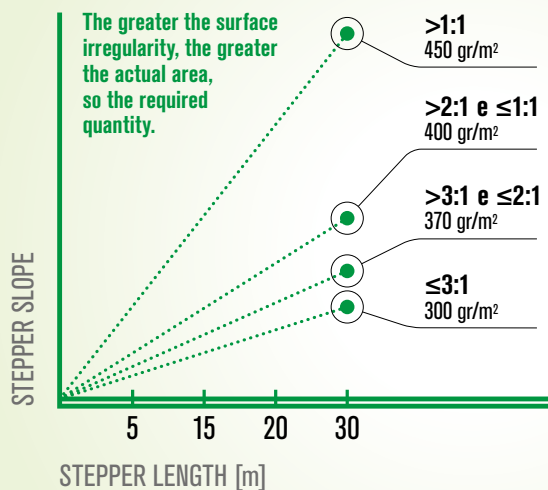


INCORRECT APPLICATION



CORRECT APPLICATION

DOSAGE DEPENDIG ON THE GRADIENT



The quantity of **HYDROMAT®** is determined by the gradient, the slope condition, the soil texture and weather conditions.

Average covering is 400 gr/m².

For specific calculations, please contact us.

WHEN CHOOSING HYDROMAT®?

When ground preparation is difficult or even impossible because of environmental conditions or steep terrain.

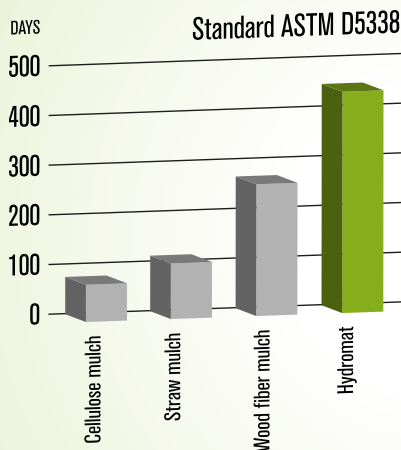
When slopes are very steep and need immediate protection against erosion.

When a rapid vegetation growth is needed.

When you need a high protection level and rainfalls are very frequent, even right after the application.

When price-quality, results and the rapid implementation are important.

MINIMUM FUNCTIONAL LONGEVITY



In the field of erosion control solutions, the term Functional Longevity describes the period of effectiveness of one of these solutions. The real Functional Longevity is determined by the physical composition of the used material and by the site specific conditions, such as weather conditions, humidity, soil composition, biologic activity and other environmental factors.

The picture shows the testing results in accordance with the standard ASTM D5338. As we can see, its proven that **HYDROMAT® MLF** lasts longer than any other erosion control solution.

LOSS OF TERRAIN

When we speak about loss of terrain, the difference is huge!





HYDROMAT®

THE INNOVATIVE PROTECTION AGAINST SOIL EROSION

ROAD TRENCH

BEFORE



AFTER



SLOPES WITH STEEL MESH

BEFORE



AFTER



LANDFILL

BEFORE



AFTER



GOLF COURSES

BEFORE



AFTER



RESIDENTIAL

BEFORE



AFTER



MINES

BEFORE



AFTER



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REV A / 09-2017