

Virmat *Virmat L*

The three-dimensional
pre-seeded geomats
for the erosion
control of the
surfaces

Ideal for:

- ✓ Escarpments and slopes
- ✓ Road and railway constructions
- ✓ Hydraulic structures
- ✓ Landfills and reclamations
- ✓ Escarpments consisting of loose or friable soil
- ✓ Poorly watered escarpments

Virens

Make the Planet Green!

Virmat

Virmat L



Virmat are gripping three-dimensional, pre-seeded, highly resistant, erosion control geomats, made up of three bi-oriented, overlapped and sewn together grids, and of Viresco pre-seeded biotextile, assembled in the lower part of the product.

These geomats are appreciated in geotechnics and environmental engineering for an enhanced erosion control, protection from water and wind, protection of loose or friable soils, subject to superficial detachment events.

VIRMAT can also be applied on steeply inclined terrains, up to 65°, and it is still able to perform an effective protective and vegetative action. VIRESCO, for its part, prevents the fine soil loss under any weather conditions and guarantees a perfect vegetation cover thanks to high quality seeds and fertilizer, evenly distributed in its weft and firmly kept inside under any environmental and atmospheric conditions.

So, on one hand there will be a strong slope protection from the very beginning and, on the other hand, a fast grassing and a strong anchorage of the roots to the soil and to the three-dimensional structure, made invisible by vegetation.

VIRMAT structure allows for a tensile strength 6-7 times higher than other geomats of equal thickness and category.

The result will be a single tough block, resistant to the erosion impact.



Cellulose fibres



First quality seeds



First quality fertilizers



Three-dimensional geomat



BEFORE



AFTER

Some of the advantages offered by Virmat and Virmat L



Versatile

It adapts to the characteristics and dimensions of each surface, and ensures protection against erosion events and widespread wash-out.



Light and flexible

It adheres perfectly to the ground, and can be easily cut and shaped using simple domestic scissors, without recourse to specialised manpower.



Protection and regrassing

Erosion control and soil sowing in a single solution.



Highly resistant

Erosion control enhanced thanks to the association of a stable geomat with vegetation rooting.



Continuous innovation

Technical improvement thanks to the collaboration with professionals and research institutes.

Quick installation guide in four simple steps

Full instructions available for download at virens.com



1. SOIL PREPARATION

Remove any stones and vegetation by the roots and level the ground evenly.



2. APPLICATION

Lay down Virmat and secure it with strong anchoring means.



3. SOIL COVERING AND IRRIGATION

Cover Virmat with topsoil, either manually or by mechanical means, and water it.



4. FINAL RESULT

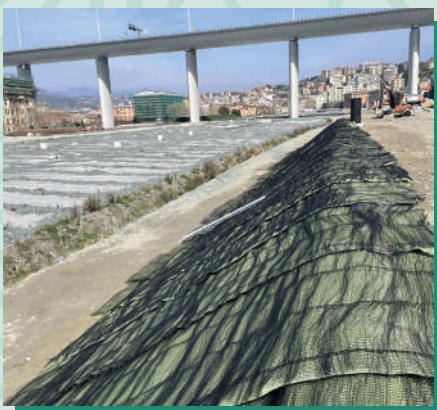
A perfect slope regrassing.



Case History

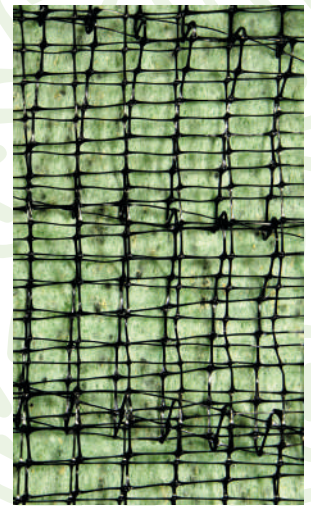
Protection and regrassing of banks by using Virmat, the three-dimensional pre-seeded geomat.

Virmat is highly appreciated when performing hydraulic works since it is easily applied and guarantees excellent results in terms of erosion control, regrassing of areas to be recovered, aesthetic effect.

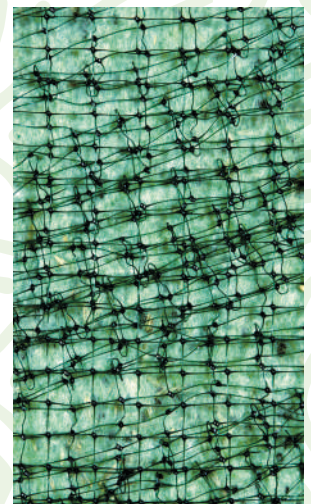


Technical data sheet

COMPOSITION	PP (Polypropylene) - Cellulose fibres, seeds	PP (Polypropylene) - Cellulose fibres, seeds
STRUCTURE	Three-dimensional geomat + Pre-seeded biotextile	Three-dimensional geomat + Pre-seeded biotextile
STANDARD COLOUR	black (carbon black 1% max - ASTM D4218) + green	green
TYPE OF MESH	Rectangular openings	Rectangular openings
LONGITUDINAL MESH OPENING	12 mm	7 mm
TRANSVERSAL MESH OPENING	16 mm	9 mm
THICKNESS	30 mm EN ISO 9863-1	9 mm EN ISO 9863-1
WEIGHT	500 g/m ² EN ISO 9864	400 g/m ² EN ISO 9864
POROSITY	95 %	95 %
ROLL WIDTH	2.05 m EN ISO 10320	2.05 m EN ISO 10320
ROLL LENGTH	45 m EN ISO 10320	50 m EN ISO 10320
ROLL DIAMETER	80 cm	65 cm
ROLL VOLUME	1.05 m ³	0.70 m ³
ROLL GROSS WEIGHT	50 kg	45 kg
LONGITUDINAL TENSILE STRENGTH	10.9 kN/m EN ISO 10319	4.5 kN/m EN ISO 10319
TRANSVERSAL TENSILE STRENGTH	15.6 kN/m EN ISO 10319	13.5 kN/m EN ISO 10319
LONGITUDINAL ELONGATION DUE TO YIELD	20.0 % EN ISO 10319	23.0 % EN ISO 10319
TRANSVERSAL ELONGATION DUE TO YIELD	15.0 % EN ISO 10319	23.0 % EN ISO 10319
All the dimensional values may be subject to ± 4%-6% variations.		



Virmat



Virmat L

To every inclination a proper solution

Recs Viresco

65°

Virmat

55°

Virmat L

45°

Viresco Sator

Viresco Pratens

Viresco Olus

Who we are
Virens was established in 1995 and benefits from thirty year of experience in the field of the production of textiles applied to the environment. Our company produces biotextiles, biomats, geomats and pre-seeded geocomposite material for erosion control, landscaping architecture, gardening and horticulture. Protection and regrassing of all types of soil.

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