

BioJute

SOIL BLANKETS

The natural cost-effective way to control erosion and promote vegetation regeneration



What is BioJute?

BioJute is a coarse, biodegradable fabric woven into an open mesh from rugged heavy jute yarn.

How it works:

BioJute's woven mesh provides immediate erosion control and a stable medium to support healthy plant growth.

Approximately 60% of the area is open, allowing light, water and nutrients to easily pass through to the underlying soil. Whilst the jute retains water, creating a localised water reservoir for the soil below, the open mesh provides a "trap" for soil, seeds, water and nutrients.

With time, the jute material biodegrades, enhancing the soil fertilisation and the cohesive strength of the root systems. At this point the flexible nature of the plants become the primary stabilising and protecting element. Depending on climate conditions, the biodegradation period is typically 1-2 years.

BioJute provides nature with a helping hand at erosion control and vegetation generation. In certain instances BioJute may be used in conjunction with Rockfall Netting.

Benefits:

- **NUTRIENT TRAP:**
The open mesh provides a "trap" for soil, seeds, water and nutrients.
- **SUPERIOR DRAPABILITY:**
Allows close contact to the ground surface.
- **MOISTURE RETENTION:**
Jute can absorb up to five times its own weight of water. The retained water firstly attenuates the rainfall run-off and is then released gradually to soak into the adjacent soil to nourish the vegetation, so aiding growth.
- **EASILY VEGETATED:**
Readily accepts hydroseeding. Rooted plants are easily planted in the jute apertures. The open weave allows over seeding after installation.
- **GROWTH PROMOTION:**
The open mesh structure allows light, water and nutrients to easily pass through to the underlying soil.
- **IDEAL FOR BIOENGINEERING APPLICATIONS:**
Useful with the use of vegetation for erosion control.

Benefits / . . .

APPLICATIONS AND USE

Benefits (cont'd):

- ENVIRONMENTALLY FRIENDLY:
The BioJute biodegrades completely within 1-2 years.
- SOIL FERTILISER:
Decomposition of the natural fibres within the net improves the soil organic content, permeability and moisture retention ability.
- COST EFFECTIVE:
Lower costs compared to synthetic geotextiles.
- EASE OF INSTALLATION:
BioJute is lightweight and easy to install on sites with difficult access. It is easily cut and shaped by unskilled labour to accommodate existing topographical conditions.
- SUCCESSFUL TECHNICAL PERFORMANCE:
Studies have been conducted by the "Institut für Geotechnik und Grundbau" of the University GH Siegen, Germany.



Areas of application include:

- Golf course construction and maintenance.
- Embankments and slopes.
- Civic beautification.
- Landfills.
- Highway construction.
- Landscape improvement.
- Sod stabilisation.
- Lakes and stream banks.
- Mining reclamation.
- Nurseries.
- Military bases.
- Industrial and commercial development.
- Farm and agricultural.
- Hydroseeding.
- Ski slopes.
- Beach and sand dune stabilisation.
- Pipeline construction.
- Wetland reclamation.
- Drainage ditches.

Most appropriate use of BioJute:

- Greening stable dry banks with not too steep slopes (<1:2).
- May be used on a fairly uneven underlying surface as the superior drapability of BioJute ensures good contact with the underlying soil.
- For sites where plants will form the primary stabilising and erosion control mechanism after 1-2 years (corresponding to BioJute degradation period).

Specifications:

BioJute		
Type	BJ 250	BJ 500
Mass (g/m ²)	250	500
Max. water retention(g/m ²)	1250	2500
Yarn diameter (mm)	2-4	4-7
% Open area	70	60
Supply size:	Bales - 10 pieces (50m x 1.22m)	

During transportation and prior to use on site BioJute should be kept dry and retained in its original wrapping out of sunlight in dry, ventilated conditions.

Please note pegs are required to hold the blanket in place. For complete specifications, design considerations and installation guidelines, please contact your local African Gabions office.

Maccaferri SA (Pty) Ltd also sell BioMac™, Eco-Logs™, Eco-Sleeves, Water Logs and other bioengineering products. Please contact us for more information regarding these products.

BioJute's primary function is erosion control.



Quality System Guarantees
production, certified internal management and

