

Phi (Ireland) Ltd.



Covamat Eromat

Phi (Ireland) Ltd. provides full design, supply and installation service on all our products.

Our experienced design teams and installation crews provide clients and contractors with optimum peace of mind and minimum risk.

Description

Covamat and **Eromat** are matting products for simple, cost-effective erosion control and plant establishment.

The range has evolved out of proven straw layering techniques developed over many years, now used in drainage, reclamation and landscaping. It consists of biodegradable mattings made from natural materials such as coir fibre, cereal, straw and cotton waste.

The mattings are easy to handle and install. They are economical and offer the most effective and simple answers to erosion problems.

Covamats are a 10mm thick quilted straw/coir fibre mat with added mulches and a choice of seeds incorporated during manufacture. It now incorporates the SOF-A-100 organic slow-release fertilizer with soil improving effect.

Eromats are 7mm thick quilted straw/coir fibre mats for separate seeding or planting.

Uses

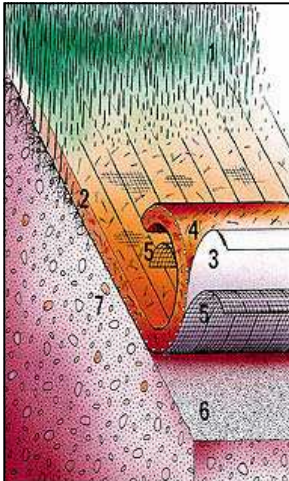
- φ Freshly soiled embankments
- φ New cuttings
- φ Lining new or eroded watercourses
- φ Protecting tidal zone reinstatement
- φ Balancing ponds
- φ Facing reinforced soil structures
- φ Lake edging
- φ Establishing wild flowers
- φ Road ditching



Soil erosion normally results from displacement of soil particles by the impact of raindrops, by scour or by wind energy on a dry surface.

Where natural vegetation is the ultimate answer Covamat and Eromat helps nature by stimulating the natural protective growth which eventually takes the matting's place.

Biodegradable quilted mats prevent erosion by absorbing the energy of impacting rain and isolating water scour by only permitting water to soak through to the underlying soil. The close textured quilted mat creates a barrier against wind and rain and giving protection of soil and seed that helps grass to take over the long term protection.



1. Establish grass sward
2. Mat matrix seeded during manufacture (Covamat only)
3. Seed retaining paper (Covamat only)
4. Natural fibre matrix
5. Sandwiching polypropylene or jute for a totally biodegradable solution
6. Vulnerable soil
7. Protected soil

Features

Up to 10mm of dense natural matrix that allows water to percolate.

Informally arrange fibres with air spaces and moisture-retaining mulches.

Mats seeded during manufacture with the seeds of your choice.

Un-seeded mats for overlaying broadcast seeds.

Choice of polymer or jute mesh for outer layer sandwiching the inner biodegradable matrix.

Manageable roll sizes and weights.

Type SOF-A-100 organic slow release fertilizer added during manufacture. (Covamats only)

Benefits

Erosion causing energies are absorbed while offering instant 100% soil protection. Can be laid in running water trapping sediment fines.

Seeds and indigenous plants can establish from within and below the matting, generating a natural range of plants.

Seeding and erosion control in a single operation.

Mulching effect of the matting improves all-year round establishment.

Choice between medium term reinforcement of the surface root matrix or a totally biodegradable system

Mats can be placed manually, often concurrently with the soiling operation. They are simple to install and especially valuable for awkward situations.

Compensates for poor soil conditions while retaining the seeds when used in slope installations.



Function	Name	Technical Details					
Rapid Vegetation establishment with simultaneous soil erosion control	Type 1 Covamat Standard	100% Straw/Hay Mulch material. Seed mix to be specified. Both sides polypropylene mesh	Area Width Length Weight Dia. Weight	36m ² 1.20m 30m 31kg 0.55m 850gm/m ²	Area Width Length Weight Dia. Weight	60m ² 2.40m 25m 51kg 0.45m 850gm/m ²	
Rapid Vegetation establishment with simultaneous soil erosion control	Type 2 Covamat Standard	50% Coir fibre/50% Mulch material. Seed mix to be specified. Both sides polypropylene mesh	Area Width Length Weight Dia. Weight	36 m ² 1.20m 30m 33kg 0.55m 900gm/m ²	Area Width Length Weight Dia. Weight	60 m ² 2.40m 25m 54kg 0.45m 900gm/m ²	
Rapid Vegetation establishment with simultaneous soil erosion control	Type 3 Covamat Standard	100% Coir fibre both sides polypropylene. Mesh .Seed mix to be specified. Both sides polypropylene mesh	Area Width Length Weight Dia. Weight	36 m ² 1.20m 30m 33kg 0.55m 900gm/m ²	Area Width Length Weight Dia. Weight	60 m ² 2.40m 25m 54kg 0.45m 900gm/m ²	

All Covamats now incorporate SOFA-100 Organic Fertilizer to improve poor soils.

Seed Mixes

English	Latin	1A	1C	2A	2C	Pioneer
Perennial ryegrass	Lolium perenne	30%	27%	-	-	25%
Creeping red fescue	Festuca rubra rubra	30%	27%	35%	25%	25%
Chewings fescue	Festuca commutata	30%	27%	30%	25%	-
Smooth stalked meadow grass	Poa pratensis	10%	12%	30%	10%	-
Brown top bent	Agrostis tenuis	-	-	5%	5%	10%
Sheeps fescue	Festuca ovina	-	-	-	28%	15%
White clover	Trifolium repens	-	2%	-	2%	7%
Birdsfoot trefoil	Lotus corniculatus	-	1%	-	1%	2%
Common trefoil	Medicago lupulina	-	1%	-	1%	3%
Suckling clover	Trifolium dubium	-	-	-	-	2%
Alsike clover	Trifolium hybridum	-	-	-	-	4%
Red clover	Trifolium pratensis	-	3%	-	3%	7%

1A Rapid establishment and hard wearing; also salt resistant dyke/coastal shore mix

1C As per 1A with clover added for poor soils

2A Low maintenance - Non ryegrass. Standard moist ground

2C As per 2A with clover added for poor soils

Pioneer Poor soils with establishment problems

Function	Name	Technical Details					
Budget mat for short-term erosion control with separate seeding or planting.	Type 4 Eromat Light	100% Straw both sides polypropylene mesh	Area Width Length Weight Dia. Weight	72m ² 1.20m 60m 33kg 0.6m 450gm/m ²	Area Width Length Weight Dia. Weight	100.8m ² 2.40m 42m 46kg 0.55m 450gm/m ²	
For erosion control with separate seeding or planting operation	Type 5 Eromat Special	50% Straw - 50% Coir fibre both sides polypropylene mesh	Area Width Length Weight Dia. Weight	72m ² 1.20m 60m 36kg 0.6m 500gm/m ²	Area Width Length Weight Dia. Weight	100.8m ² 2.40m 42m 40kg 0.55m 500gm/m ²	
Greater wear factor than Type 5 with a longer degradation period	Type 6 Eromat Special	100% Coir fibre 450gm/m ² . Both sides polypropylene mesh	Area Width Length Weight Dia. Weight	72m ² 1.20m 60m 36kg 0.6m 500gm/m ²	Area Width Length Weight Dia. Weight	100.8m ² 2.40m 42m 51kg 0.55m 500gm/m ²	
Highest degree of durability for heavy duty applications	Type 7 Eromat Heavy	100% Coir fibre 750gm/m ² . Both sides polypropylene mesh	Area Width Length Weight Dia. Weight	48m ² 1.20m 40m 36kg 0.6m 750gm/m ²	Area Width Length Weight Dia. Weight	72m ² 2.40m 30m 54kg 0.50m 750gm/m ²	