



Covamat Plus Type 1



Exclusive organic bio-degradable erosion control blanket incorporating standard and specified seed mixes suitable for various soil and climatic conditions. Covamat Plus improves poor soil conditions with the addition of organic fertiliser and micro-organisms. It is also available in different fibre combinations and reinforced meshes for short, medium and long-term degradation (up to 36 months). Specially designed for inherently stable freshly-soiled embankments, new slope cuttings, lining new water-courses, balancing ponds, facing reinforced soil slopes, lake edgings, protection of natural monuments, establishing wild flowers and road ditching.

Specification	Width (m)	Length (m)	Area (m ²)
100% straw fibres. Seed mix embedded in mulch-layer, fertiliser SOF-A-100, dry micro-organisms and top soil layer, top and bottom degradable polypropylene-mesh, ~ 1200 g/m ²	1.2	25	30
	2.4	25	60

Green-tech endeavour to ensure that the information given on this technical data sheet is accurate, but accept no liability for its use or its suitability for particular application.

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Fibre	Straw
Fibre Content (%)	100%
Thickness (mm)	10 - 20
Weight/Total (g/m ²)	~ 700
Weight/Fibre (g/m ²)	450
Weight/Seedmix (g/m ²)	35 - 50
Weight/Mulchlayer (g/m ²)	~ 100
Weight/Paperlayer (g/m ²)	30
Micro-Organisms	Bacillus Subtilis 1 g/m ²
Organic Fertiliser Type SOF-A-100	~ 100 g/m ²
Functional Longevity (months)	12 -18

Mulchlayer: The mulch layer is a combination of coir-dust, chopped straw, chopped hay and coir-wasate for seed embedment and vegetation enhancement.

Structure	Value
Bottom Netting Type	Light
Top Netting Type	Medium
Bottom Netting Size	9 x 9mm
Top Netting Size	19 x 36mm
Bottom Netting Weight	4.8 g/m ²
Top Netting Weight	7.1 g/m ²
Stitching Thread	Polypropylene-thread (brown), UV degradable
Stitching Thread Tensile Strength	6.5 cN/dtex
Slope Recommendation	2:1 - 1:1
Standards	
Tensile Strength ISO-10319	2.8kg-force per 20cm
D4595 Elongation (%)	34 x 30
D4491 Flow Velocities, Short Term	3.04 m/s
Max Permissible Shear Stress (g/m ²)	900
"n" value Roughness Coefficient	0.018

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The following standard seed mixes can be selected for the Covamat range. These seed mixes compliment and support each other giving multiple use and flexibility in application. Covamat contains fertiliser, micro-organisms and mulch to improve germination rates and soil conditions. Other specified regional seed mixes can be added if required.

English Name & Advantages	Latin	1A	1C	2A	2B	2C	Pioneer
Perennial ryegrass; Quick to establish, wear tolerant and regenerative	Lolium perenne	30%	27%	-	-	-	25%
Creeping red fescue; Binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra	30%	27%	35%	25%	25%	25%
Chewings fescue; Low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata	30%	27%	30%	30%	25%	-
Smooth stalked meadow grass; Binds soil, good warer and regenerative qualities	Poa pratensis	10%	12%	30%	20%	10%	-
Brown top bent; Cold tolerant, low maintance, rhizomous, very dense growth	Agrostis tenuis	-	-	5%	5%	5%	10%
Sheeps fescue; For poor soils, drought tolerant, densely tufted	Festuca ovina	-	-	-	20%	28%	15%
Red clover; Dark pink flower, nitrogen fixing	Trifolium pratensis	-	3%	-	-	3%	7%
White clover, spreads rapidly in moist soil	Trifolium repens	-	2%	-	-	2%	7%
Birdsfoot trefoil; Used in dry, sandy soils	Lotus corniculatus	-	1%	-	-	1%	2%
Yellow trefoil; Thrives in dry conditions	Medicago lupulina	-	1%	-	-	1%	3%
Suckling clover (Irish Shamrock)	Trifolium dubium	-	-	-	-	-	2%
Alsike clover	Trifolium hybridum	-	-	-	-	-	4%

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English Name & Advantages	Latin	1A	1C	2A	2B	2C	Pioneer
1A		Rapid establishment and hard wearing, good for steep slopes and flood-endangered areas. Excellent sod forming and erosion protection, strong root development, salt resistant					
1C		As per 1A and with clover added for poor soils. <i>Most widely used mix.</i> Good for road embankments, swales and coastal applications.					
2A		Low maintenance, shade tolerant. Use in better quality soils. Strong root development and erosion protection. Salt resistant.					
2B		Dry stony soils, strong root development, erosion protection and salt resistant.					
2C		As per 2A with clover added for poor soils.					
Pioneer		For poor soils with establishment problems. 50 g/m ² <i>Please note: this seed mix will incur an extra cost of £0.20m².</i>					

Clovers and legumes are added where poor soil conditions exist but should not be used in good quality soils as they can dominate. They fix Nitrogen into the soil to improve fertility, which is good for swales and ponds.

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