

Greenfix Covamat™ F3 Fire Retardant Pre-seeded Blanket

Application and Benefits

Greenfix Covamat™ F3 is a unique biodegradable Fire Retardant Pre-seeded Erosion Control Blanket. F3 combines all the benefits of a natural biodegradable blanket with additional fire protection according to DIN 4102-1: 1998-05 – class B2. The natural blend of different biologically treated grass fibres with added coir fibres helps vegetation to establish and prevents surface erosion. Covamat F3 improves poor soil conditions with the addition of organic fertiliser and microorganisms. In prolonged hot and dry periods some fibres quickly become dry and at risk of catching fire from a spark or cigarette. In areas where fire hazards need to be considered, such as railway embankments, the F3 range provides an option to meet the environmental standards of your project.



Product Characteristics

Properties	
Fibre Content	Natural Grass
Fibre Origin	Europe
Fibre Characteristics	Treated, 100% Biodegradable
DIN Standard - Fire Resistance	Acc. to DIN 4102-1 (top side of Covamat)
Seed Mix Weight	~30g/m ²
Organic Fertiliser Weight	~100g/m ²
Roll Sizes	1.2m x 25m OR 2.4m x 25m
Structure	
Bottom Netting Size	9 x 9mm
Top Netting Size	19 x 36mm
Top and Bottom Netting Weight	4.8 g/m ² - 7.1 g/m ²
Stitching Thread	Polypropylene-thread (Brown) UV Degradable
Stitching Thread Tensile Strength	6.5 cN/dtex
Slope Recommendations	1:1 or > Max 2:1
Standards	
Tensile Strength ISO-10319	2.8kg - force per 20cm
D4595 Elongation (%)	34 x 20
D4491 Flow Velocities, Short Term	4.26 m/s
Max Permissible Shear Stress	1100 g/m ²
"n" Values Roughness Coefficient	0.014

Greenfix Standard Seed Mixes

The following standard seed mixes are for use within Greenfix Pre-seeded Erosion Control Blankets. Please make Greenfix aware of the seed mix selection when placing an order. A Wildflower Seed Mix can be added to any of the below seed mixes upon request, please note this will incur an extra cost of £0.35m².

Please note 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.

Wetland Seed Mix (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.		
Mix %	English Name & Advantages	Latin Name
30%	Perennial ryegrass; Quick to establish, wear tolerant and regenerative	Lolium perenne
30%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
30%	Chewings fescue; low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata
10%	Smooth stalked meadow grass; binds soil, good wear and regenerative qualities	Poa pratensis

Standard Seed Mix (1C)		
As per 1A and with clover added for poor soils. Most widely used mix. Good for road embankments, swales and coastal applications.		
Mix %	English Name & Advantages	Latin Name
27%	Perennial ryegrass; Quick to establish, wear tolerant and regenerative	Lolium perenne
27%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
27%	Chewings fescue; low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata
12%	Smooth stalked meadow grass; binds soil, good wear and regenerative qualities	Poa pratensis
3%	Red Clover; dark pink flower, nitrogen fixing	Trifolium pratensis
2%	White clover, spreads rapidly in moist soil	Trifolium repens
1%	Birdsfoot trefoil; used in dry, sandy soils	Lotus corniculatus
1%	Yellow trefoil; thrives in dry conditions	Medicago lupulina

Low Maintenance Seed Mix (2A)		
Low maintenance, shade tolerant. Use in better quality soils. Strong root development and erosion protection. Salt resistant.		
Mix %	English Name & Advantages	Latin Name
35%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
30%	Chewings fescue; low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata
30%	Smooth stalked meadow grass; binds soil, good wear and regenerative qualities	Poa pratensis
5%	Brown top bent; cold tolerant, low maintenance, rhizomous, very dense growth	Agrostis tenuis

Dry and Stony Soil Seed Mix (2B)		
Dry stony soils, strong root development, erosion protection and salt resistant.		
Mix %	English Name & Advantages	Latin Name
25%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
30%	Chewings fescue; low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata
20%	Smooth stalked meadow grass; binds soil, good wear and regenerative qualities	Poa pratensis
5%	Brown top bent; cold tolerant, low maintenance, rhizomous, very dense growth	Agrostis tenuis
20%	Sheeps fescue; for poor soils, drought tolerant, densely tufted	Festuca ovina

Poor Soil Seed Mix (2C)		
Low maintenance, shade tolerant. Use in better quality soils. Strong root development and erosion protection. Salt resistant. Added clover for poor soil conditions.		
Mix %	English Name & Advantages	Latin Name
25%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
25%	Chewings fescue; low maintenance, good for dry low nutrient soil, shade tolerant	Festuca commutata
10%	Smooth stalked meadow grass; binds soil, good wear and regenerative qualities	Poa pratensis
5%	Brown top bent; cold tolerant, low maintenance, rhizomous, very dense growth	Agrostis tenuis
28%	Sheeps fescue; for poor soils, drought tolerant, densely tufted	Festuca ovina

2C Seed Mix continued on following page

3%	Red Clover; dark pink flower, nitrogen fixing	Trifolium pratensis
2%	White clover, spreads rapidly in moist soil	Trifolium repens
1%	Birdsfoot trefoil; used in dry, sandy soils	Lotus corniculatus
1%	Yellow trefoil; thrives in dry conditions	Medicago lupulina

Pioneer

For poor soils with establishment problems. 50 g/m2 Please note: this seed mix will incur an extra cost of £0.20m2.

Mix %	English Name & Advantages	Latin Name
25%	Perennial ryegrass; Quick to establish, wear tolerant and regenerative	Lolium perenne
25%	Creeping red fescue; binds, drought and salt tolerant, good erosion protection	Festuca rubra rubra
10%	Brown top bent; cold tolerant, low maintenance, rhizomous, very dense growth	Agrostis tenuis
15%	Sheeps fescue; for poor soils, drought tolerant, densely tufted	Festuca ovina
7%	Red Clover; dark pink flower, nitrogen fixing	Trifolium pratensis
7%	White clover, spreads rapidly in moist soil	Trifolium repens
2%	Birdsfoot trefoil; used in dry, sandy soils	Lotus corniculatus
3%	Yellow trefoil; thrives in dry conditions	Medicago lupulina
2%	Suckling clover (Irish Shamrock)	Trifolium dubium
4%	Alsike clover	Trifolium hybridum