



Agrotextiles



Biodegradables



Geotextiles



Specialist



Wildlife



Living Walls & Roofs



Accessories

ecotex™ 100

Biodegradable Tree Mat Spats & Hedge Mat Strips



100% Bio-Based | Fully Compostable | Environmentally Friendly



Ecotex™ 100 is a new, unique, copyright protected, biodegradable range of tree mat spats and hedge mat strips designed to protect newly planted saplings and young trees from competitive weed growth.

The special breathable bio-fabric creates a favourable growing environment by insulating the roots from temperature extremes and conserving ground moisture for healthier and quicker development.

Key Features

Highest Environmental Credentials Ecotex™ 100 bio-fabric has been specially developed to offer the highest environmental credentials available.

Ecotex™ 100 is 100% bio-based with the fabric acting as a carbon store. It is also fully compostable and completely biodegrades, through the combined action of micro organisms, temperature and humidity, into nutrient rich compost and leave no future hazards for wildlife and maintenance.

Effective Weed Control The dense, tightly bound, construction of Ecotex™ 100 provides an effective barrier against weed penetration. While the specially heat fused structure discourages growth of airborne seeds (a common problem with other biodegradable blankets products) - resulting in a low maintenance solution avoiding the use of herbicides.

Improved Growth Ecotex™ 100 creates an environment that is beneficial to rapid and healthy plant growth. In addition to suppressing competitive weed growth, the blanket provides insulation and conserves precious ground moisture by lessening evaporation.

The highly permeable matting is also hydrophilic - absorbing large amounts of water, which is gradually absorbed into to the ground, or evaporates into the atmosphere to improve the micro-climate.

Visually Pleasing The subtle brown colour of Ecotex™ 100 blends well with surrounding ground, so does not require any top dressing to disguise it.



MADE IN BRITAIN



Application Categories: Horticulture, Agriculture and Equestrian

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100% Bio-Based



Made purely of PLA (Poly Lactic Acid) bio-fibre extracted from the sugars of organic materials that are a renewable sustainable resource unlike petroleum based plastics.

Fully Compostable



Certified fully compostable to EN ISO 13432 which basically means the fabric completely breaks down in to CO₂, water and biomass through micro-organism activity within 12 weeks in industrial composting facilities where temperatures are at least 58°C.

Completely Biodegradable



Left in the field our bio-fabrics, like any other organic material, slowly decompose biologically through the actions micro-organisms, such as bacteria and fungi, assimilating into the natural environment over time without any ecological harm.

Low Carbon Footprint



The organic material used captures and sequesters CO₂ which is then fixed in the fabric.



Manufacturing PLA produces approx 80% less greenhouse gases and uses approx 52% less non-renewable energy (NREU) than traditional polymers like polystyrene¹.



The fabrics are manufactured in a factory that uses windmills to provide 70% of their energy.

Increased Efficiency



Our tree guards and tree mats are uniquely supplied as tear-off sheets on a roll which significant increases manufacturing, handling, transport and packaging efficiency.

Conserves Raw Materials



Ecotex™ 100 is made from a special high grade bio-fabric which is lighter but strong, combining this with a change in tree mat shape has resulted in significantly less production waste and a saving of 48% on raw material consumption².

UV Stable Sunlight does not breakdown the fabric, so there is no need to cover the fabric with expensive bark or wood chips.

Fire Resistant Ecotex™ 100 bio-fabric is naturally fire resistant so there is minimal risk of fire ignition (cigarettes, vandalism) unlike natural fibre blankets like coir, jute, hemp.

Excellent Permeability The water and air permeability of Ecotex™ 100 is more than 10 times better than woven fabrics which helps to promote the health growth of the young plants.

Highly Durable The tough and durable tear resistant mats have an unrivalled biodegradable life expectancy of at least 3 years.

Tree Mats on a Roll For remote or exposed sites, no more fumbling to separate loose sheets with cold wet fingers or chasing across fields to retrieve mat stacks scattered by the wind - Ecotex 100 can optionally be supplied as tear off sheets on a roll which are significantly more compact and easier to handle than standard loose squares.

Standard Sizes

Tree Mats

Supplied as single sheets with slit to centre:

45cm x 45cm squares

90cm x 90cm squares

Hedge Strips

45cm x 75.00m rolls with single row of cross cut holes at 20cm spacing along centre

90cm x 75.00m rolls with double stagger row of cross cut holes at 40cm spacing along centre

Tree mats on tear off rolls, custom sizes and designs also available subject to minimum order quantity.

Technical Specification

Tensile Strength: 2.20kN/m EN ISO 10319

Thickness: 0.7mm EN ISO 9863-1

Water Permeability: 135 l/m²s EN ISO 11058

Life Expectancy: min 3 years

Composition: 100% PLA biofibre non-woven

Recommended Accessories

Fixing Pegs We supply **Eco-Peg™** fully biodegradable 150mm long barbed biopolymer pegs to anchor the tree mats.

Tree Guards Our new biodegradable **Eco-Haven™** tree guards and shrub shelters provide an effective way to protect saplings from browsing animals and promote growth.



¹Comparison between the eco-profile data for Ingeo (2014) and an average of PET & PS data from US Producers (American Chemistry Council, 2011)

²Compared with market leading 157g/m² Ecotex MulchMat and slight change from 50cm to 45cm and 100cm to 90cm squares.

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