

Solco Protection Fleece

Description:

Solco Protection Fleece is a medium duty protection geotextile designed for a wide range of applications, including specifically avoiding damage to Solco structural waterproof and Gas membranes.

Solco Protection Fleece is a UV stabilised polypropylene needle punched non-woven geotextile and is supplied in 2m x 50m roll sizes.



Features & Benefits:

- Prevents direct contact of angular stones with all types of membranes.
- Prevents high friction forces developing between gravel and membranes.
- The permeability in the plane allows liquids and gases to drain.
- Prevents direct contact of backfill with all types of membranes.
- The production process allows only the use of high quality Polypropylene.
- Stabilised against UV radiation to allow prolonged exposure to sunlight.
- High tensile strength makes the geotextile robust & long lasting.
- Reduced risk of slipping failure on slopes maintaining excellent protection performance.
- Resistant to all chemical and biological media occurring in soils.
- Cannot be dissolved by water and is therefore harmless to ground water.
- Good Puncture Resistance.

Typical Uses:

- Landfills.
- Water ponds and reservoirs.
- Canals.
- Tunnels and galleries.
- Solsheet Structural Waterproofing Applications.
- Solshield Gas Protection Applications.
- Solshield Geomembrane Systems.

Applications:

- Solco Protection Fleece protects Solco's loose laid Waterproof & Gas Membranes from damage from later trades such as the placement of reinforcement bars and accessories and prior to a concrete slab pour.
- Solco Protection Fleece is designed for medium duty applications. If a more robust product is required then the use of a Solco HD Protection Board should be considered (See separate TDS).

Installation:

- Solco Protection Fleece should be loose laid over the membrane. For continuity of protection over the whole area ensure you overlap the fleece to fleece by 150mm and secure using Solco single-sided lap tape ensuring all surfaces are dry and clean prior to application.
- In windy conditions ensure you weigh down the fleece to ensure it remains in position at all times.

Storage:

- Keep rolls stored in a clean & dry environment, on pallets, placed on a level surface, and stacked to a maximum of two pallets high.

Technical Data:

Property	Test Method	Value
Mechanical		
Tensile Strength (<i>MD & CD</i>)	EN ISO 10319	20 kN/m (± 2.8)
Elongation (<i>MD & CD</i>)	EN ISO 10319	55% (± 12.5)
Resistance to Static Puncture	EN ISO 12236	3500 N (± 500)
Dynamic Performance Resistance	EN ISO 13433	17 mm (± 4.3)
Hydraulic		
Characteristics Opening Size (O_{90})	EN ISO 12956	70 μm (± 21)
Water Flow Velocity (VH_{50})	EN ISO 11058	70 mm/sec (± 21)
Water Flow Rate	EN ISO 11058	70 l/(m ² *sec) (± 21)
Water Flow Capacity in the Plane (<i>MD / CD</i>)	HG 1.0 at 20kPa HG 1.0 at 100kPa HG 1.0 at 200kPa EN ISO 12958	27 / 21 l/m/sec*10 ⁻⁵ (± 30) 9 / 6.9 l/m/sec*10 ⁻⁵ (± 30) 4.1 / 1.0 l/m/sec*10 ⁻⁵ (± 30)
Endurance		
Weathering Resistance (<i>MD & CD</i>)	EN 12224	90% Retained Strength
Resistance to Liquids - Acid (<i>MD & CD</i>)	EN 14030	90% Retained Strength
Resistance to Liquids - Alkaline (<i>MD & CD</i>)	EN 14030	90% Retained Strength
Oxidation Resistance (<i>MD & CD</i>)	EN ISO 13438	90% Retained Strength
Resistance to Soil Burial (<i>MD & CD</i>)	EN 12225	90% Retained Strength
Physical		
Mass/Unit Area	EN 9864	250 gr/m ² (± 25) (Average)
Thickness (2kPa)	EN 9863-1	1.6 mm (± 0.32)