

SOLCO Protection Fleece

A medium duty fleece to protect Solco Structural Waterproof & Gas Membranes.



- Prevents direct contact of backfill with all types of membranes.
- Prevents high friction forces developing between gravel and membranes.
- Produced from high quality polypropylene.
- UV Stable to allow prolonged exposure to sunlight
- Good Puncture Resistance.



Colour	Product Code	Roll Size
Black	SOLCOP30	2m x 50m

SOLCO - System Components

Issue Date 22.08.17

Product Description

Solco Protection Fleece is a medium duty protection geotextile designed for a wide range of applications which includes specifically to avoid 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.

Typical Uses

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

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.
- 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.
- Manageable roll sizes
- Resistant to all chemical and biological media occurring in soils
- Cannot be dissolved by water and therefore is harmless to ground water.

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 weight down the fleece to ensure it remains in position at all times.

Product 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.

SOLCO - System Components

Issue Date 25.08.17

PROPERTY		TEST METHOD	VALUE	METRIC UNITS		TOLERANCE
MECHANICAL						
Tensile Strength (MD/CD)		EN ISO 10319	Average	kN/m	20.0/20.0	-2.8/-2.8
Elongation (MD/CD)		EN ISO 10319	Average	%	55/55	±12.5/±12.5
Resistance to static puncture		EN ISO 12236	Average	N	3500	-500
Dynamic Performance Resistance		EN ISO 13433	Average	mm	17	+4.3
HYDRAULIC						
Characteristics Opening Size (O ₉₀)		EN ISO 12956	Average	µm	70	±21
Water flow Velocity V _{H50}		EN ISO 11058	Average	mm/sec	70	-21
Water flow rate		EN ISO 11058	Average	l/(m ² .sec)	70	-21
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	EN ISO 12958	Average	l/m/sec*10 ⁻⁴	27/21	-30%
	HG 1.0 at 100kPa				9/6.9	-30%
	HG 1.0 at 200kPa				4.1/1	-30%
ENDURANCE						
Weathering Resistance (MD/CD)		EN 12224	Average	% Retained Strength	90/90	-
Resistance to Liquids - Acid (MD/CD)		EN 14030	Average	% Retained Strength	90/90	-
Resistance to Liquids - Alkaline (MD/CD)		EN 14030	Average	% Retained Strength	90/90	-
Oxidation Resistance (MD/CD)		EN ISO 13438	Average	% Retained Strength	90/90	-
Resistance to Soil Burial (MD/CD)		EN 12225	Average	% Retained Strength	90/90	-
PHYSICAL						
Mass/ Unit Area		EN 9864	Average	gr/m ²	250	±25.0
Thickness(2kPa)		EN 9863-1	Average	mm	1.6	±0.32