



## Selflex Impermeable Weldable Geomembrane Specification

### SEL Selflex Geomembrane

Product Code SELK003007 (2m wide roll)

Product Code SELK003008 (3m wide roll)

Product Code SELK003009 (4m wide roll)

Product Code SELK003010 (6m wide roll)

SEL-Flex is a robust weldable single layer cold applied geomembrane suitable for attenuation tank encapsulations, porous sub-base installations, lake / pond liners , gas barrier protection to structures, containment and cut-off trenches.

SEL-Flex combines excellent chemical resistance with low flexural modulus to provide a malleable, flexible membrane suitable for non-smooth surfaces and factory prefabrication to optimise on site installation.

PROPERTY	VALUE	TEST METHOD
Thickness mm +/- 10%	1.0	ASTM D-751
Density g/cm <sup>3</sup> Min	0.9	ASTM D-792
Tensile Stress @ Break Min N/mm <sup>2</sup>	18	ASTM D-638
Elongation @ Break %	> 700	ASTM D-638
Puncture Resistance, min N	150	FTMS 101C method 2065
Tear Resistance, min N	60	ASTM D-1004
Dimensional Stability, % Change Max	+/- 2.0	ASTM D-1204 1 Hr @ 100°C
Stress Crack Resistance	100%	ASTM 5397
Volatile Loss 5% loss max.	0.2	ASTM D-1203 method A
Ozone Resistance	No Cracks	ASTM D-1149
Carbon Black content	2 - 3 %	ASTM 1603
Moisture Vapour g/m <sup>2</sup> /day	< 0.1	ASTM E96
Friction Angle (Non Woven Geotextile)	21°	Shear Box
Methane Permeability	0.11 g/m <sup>2</sup> /day/atm	European Standard
Methane Transmission Rate	$1.8 \times 10^{-9} \text{ m}^3/\text{m}^2/\text{s}/\text{atm}$	BRE
Permeability Coefficient	$1.8 \times 10^{-12}$	
Core Material	Polypropylene	



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Application temperature of the membrane shall be greater than 4°C.

Primer not required.

Number of layers : One ( 1 ).

Laps - minimum 130 mm.

Jointing : Shall be formed using fusion or extrusion bead welding in accordance with manufacturers recommendations.

### Workmanship Generally

Prelaying checks : Surface acceptability. Before laying check that substrate surfaces are : -

- a ) Structurally sound.
- b ) Free from ridges, undulations and protrusions
- c ) Surface dry.
- d ) Cleaned of loose and extraneous material.

### Construction Acceptability

Construction Acceptability : Before laying check that construction allows membrane continuity to be maintained.

### Laying Membrane

Membrane to be installed by qualified operatives recommended by membrane manufacturer and prefabricated into panels where appropriate to suit site requirements.

Laid strictly in accordance with manufacturers recommendations. Apply membrane firmly to substrate ensuring that trapped air is removed as application proceeds. Overlap and bond consecutive sheets as specified using recommended hot joint methods to ensure full bonding at laps. When temperature is 4°C and falling a hot air pre-heat system of welding shall be adopted.

### Protection Generally

It is recommended to protect finished sheeting adequately to prevent puncturing during following works. Cover sheeting with permanent overlying construction as soon as possible. Immediately prior to covering check for damage and repair as necessary.

### Disclaimer

This product specification is neither giving nor implying warranty for the use of this information for design and installation, as these are beyond our control. The data provided is typical and based upon the mean values obtained from the samples taken for any one test. If not otherwise indicated the test procedures reflect usually the mean of five samples. SEL Environmental Limited reserve the right to change the specifications without prior notice.

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