

Underground waterproofing with **FLEX 99**

Bituminous membranes for underground waterproofing & tanking



Description

Flex 99 is a modified polymer bitumen membrane which is applied by torch on concrete substrates.

Flex 99 has excellent adhesion properties, also on uneven surfaces, providing a long lasting and durable application.

The product being very flexible has the capability to adapt to the surface on which it is applied, excellent for expansion joints, pileheads, corners, etc.. it also reduces the time of application.

Characteristics

- Exceptional resistance to penetration
- Elongation over 1000% with exceptional recovery
- Easy to mold and very adaptable
- Excellent and easy to use for detail works, like corners, pileheads, etc. . .
- Easy to apply on concrete substrates
- Easy to torch with exceptional overlap strength

Technical data

Technical Characteristics	Reference norm			Tolerance
Type of reinforcement		Fiberglass		
Upper surface finish		PE film / Sand		
Lower surface finish		PE film		
Length	EN 1948-1	10 m -1%	8 m -1%	
Width	EN 1948-1	50 cm -1% / 100 cm -1%		
Thickness *	EN 1948-1	4 mm	5 mm	±5%
Visible defects	EN 1850-1	No visible defects		
Filler content		0%		
Watertightness	EN 1928	500 kPa		
Watertightness after ageing (12 weeks at 80°C)	EN 1296 EN 1928	500 kPa ¹		
Tensile strength L/T	EN 12316-1	300/200 N/5 cm		-20%
Elongation to break L/T	ISO 37	1600%		±150
Static loading	EN 12730	20 kg		
Impact resistance: Aluminium EPS 150	EN 12691	500 mm 2000 mm		
Low temperature flexibility	EN 1109	-25°C		≥
Chemical resistance (seaside chemicals)	EN 13968	Resistant to chlorides, nitrates and sulphates		
Fire resistance	EN 13501-5	F ROOF		
Reaction to fire	EN 13501-1	F		
Vapour transmission	EN 1931	Moisture flow rate (g): 1,54 x 10 ⁻⁶ kg m ⁻² s ⁻¹ Moisture resistance factor (μ): 50400		≥
Vapour transmission after ageing	EN 1296 EN 1931	Moisture flow rate (g): 1,01 x 10 ⁻⁶ kg m ⁻² s ⁻¹ Moisture resistance factor (μ): 78800		
Peel resistance of joints	EN 12316-1	300/300 N/5 cm		-30%
Shear resistance of joints	EN 12317-1	300/200 N/5 cm		-20%

* Other thicknesses are available upon request for a minimum order quantity.

Flex 99 applied on expansion joints

Flex 99 can be used for expansion joint applications, in provides for a continuous un-interrupted layer on both vertical and horizontal surfaces.

The product can be used for a multitude of applications due to its elasticity and flexibility such as: roofs with and without access, green roofs, etc. . .

Flex 99 application

The Flex 99 modified polymer bitumen membrane & Flex 99 joint strips can be applied by torch and/or hot air.

It is always recommended to use a suitable solvent or water based bitumen primer.

Packaging

	4 mm	5 mm
Roll dimensions (m)	0,5 x 10 1 x 10	0,5 x 8 1 x 8

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