

Elastoflex^{GS}

Product Ref: (DsB4-0209)

Issue No: 03-0615



MINERAL-SURFACED SBS ELASTOMERIC BITUMEN ROOFING MEMBRANE

DESCRIPTION

Elastoflex^{GS} is a high performance reinforced SBS elastomeric bitumen membrane self-finished by coloured ceramic mineral granules or slates, for waterproofing works. It features the underface grooving and selvedge scarifying, which highly improves the installation efficiency (homogenous film burn out, total and well-visible compound melting - automatic check for the operative).

USE

Elastoflex^{GS} is for use as a membrane of a single layer self-protected (or under ballast) waterproofing system for inaccessible roof; or as a top layer of a two-layer roof waterproofing system; or as a roofing membrane for upstands, gutters, penetrations and others roof details. It can be also used for miscellaneous works. In either case, this product must be used in accordance with the relevant technical specifications.

COMPOSITION AND NOMINAL CHARACTERISTICS

Upperface:	Coloured granules (colour: contact Langley Waterproofing Systems Ltd)
Selvedge upperface:	Scarified thermo-fusible film
Blend:	Filerized SBS (Styrene-Butadiene-Styrene) elastomeric bitumen
Reinforcement:	Non-woven polyester
Underface:	Grooved bitumen blend covered with thermo-fusible film

	Granules	Slates
Thickness at the selvedge (mm)	4	4
Thickness at the main area (mm)	5	4.8
Selvedge width (+/-10mm)	90	
Weight/Sqm (kg)	6.2	5.8
Weight/roll (kg)	48.5	46

AVERAGE VALUES OF MECHANICAL CHARACTERISTICS

Characteristic	Unit	Norm	Average value
Tensile strength at break	N/50mm	EN 12311-1	700 x 550
Elongation at break	%	EN 12311-1	40 x 45
Cold bending	°C	EN 1109	-20
Heat flow test	°C	EN 1110	> 100
Dimensional stability	%	EN 1107-1	-0.5
Static puncture resistance	kg	EN 12730	> 20

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PACKAGING

This product is packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources.

It is not classified as dangerous according to the International Regulation.

Customs tariff number: 680710100000A

Nominal length and width (mxm): 8 x 1

Rolls quantity per truck pallet: 23

Rolls quantity per container pallet: 25

Rolls quantity per wooden box: 20

GENERALITIES ABOUT APPLICATION

Overlaps:

The laps must be bonded by torching.

The longitudinal laps must be at least 80mm wide.

The end laps must be at least 150mm wide and should not be aligned but must be staggered by at least 500mm between adjacent sheets.

Application:

Application must be by torching however it is acceptable to torch this product onto a cooled layer of bonding bitumen. This membrane used in single-layer system must be applied by torching only according to the following methods of attachment regarding the support: fully bonding; partial bonding by means of a perforated felt. This membrane used as top layer of a two-layer system must be fully torched only on the underlayer.

Slope:

Self-protected single-layer system:

The slope must be minimum 2% (3% on steel deck).

For slope $\geq 40\%$, provision must be made for 5 mechanical fixings (screws and washers, scr 40x40mm) at the head of each sheet. The end laps therefore need to be increased to at least 120mm. Note: The slope is reduced to 20% when the single-layer system used a hot-applied bitumen bonding layer.

For slope $\geq 100\%$, in complement, the lengths should be reduced to the half of the roll length and the single-layer system does not use a hot-applied bitumen bonding layer.

For other cases, consult Langley Waterproofing Systems Ltd.

NOTE

Langley Waterproofing Systems Ltd reserves the right to change its composition as a result of technical and experimental improvements. This product data sheet supersedes any previous edition, to obtain the up-dated technical data sheet, please contact the Langley Waterproofing Systems Ltd Technical Department.

This document is only a product technical data sheet. For each waterproofing design, please, consult the related technical agreement and in case of doubt contact the Langley Waterproofing Systems Ltd Technical Department.