



# NOVASEAL S.B.S. (-20°C)

## DESCRIPTION

NOVASEAL SBS (-20°C) is a high performance elastomeric roofing and waterproofing membrane, reinforced with a core of non-woven polyester of 200g/m<sup>2</sup> nominal weight. It combines the ability to withstand high ambient temperatures with the usual characteristics of an SBS membrane. It is suitable for a variety of applications among them; roofs, terraces, foundations, basements, pile capping, footing, tanking, car parks, bridge decks and abutments, tank lining, swimming pools, airport aprons, ramp areas and others.

## ADVANTAGES

- ▶ Positive barrier to water and dampness.
- ▶ Excellent resistance to ageing and atmospheric agents.
- ▶ Highly flexible during application at sub-zero temperatures without physical strains.
- ▶ Maintains shape stability at high temperatures.
- ▶ Accommodates structural movements.
- ▶ Withstand thermal choc.
- ▶ It is provided with a lap line in Slated and Aluminium membranes and as an option on PBS or Sand.
- ▶ Depending on client request and specification it may come in various grades: -10°C, -15°C, -20°C, -25°C or according to ASTM D6164. Manufactured according to EN 13707.
- ▶ The top surface can be either: a thin Poly-ethylene film (PBS, Fine Sand, Natural Grey or Pigmented Slates, Aluminium or with Geotextile).
- ▶ The bottom surface is covered with a thin easy torched Poly-ethylene film (a sand bottom is also available on request).
- ▶ Resistant to chemical attack from soil or water. It is suitable for areas subject to seaside salinity.

## APPLICATION

### COATING MIXTURE OF THE MEMBRANE

The waterproofing capability is provided by the coating mix of the NOVASEAL SBS (-20°C) membrane. The reinforcement made of nominal 200g/m<sup>2</sup> non-woven polyester mat is impregnated with this mix and then coated to factory regulated thickness. The mix is made up of bitumen, heavily modified with SBS rubber, thermoplastic resins and stabilizers giving the membrane its excellent resistance to atmospheric agents and ageing, maintaining shape stability at high temperatures and malleability at low temperatures, improving adhesion strength and making the membrane easy to apply, saving on time and labor.

### METHOD OF STATEMENT

The application of NOVASEAL SBS (-20°C) is both easy and quick. For application on concrete, tiles or any other porous surface, coat the substrate with ADVAPRIM (solvent based bituminous primer according to ASTM D41) at the rate of 4 – 5m<sup>2</sup>/liter. Allow the coating to dry thoroughly. In time of high humidity, we recommend it should be left overnight. The NOVASEAL SBS (-20°C) should first be unrolled and positioned correctly.

Each roll should overlap the adjacent roll by 10cm. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a profane gas torch. This will cause slight surface melting and the molten bitumen will adhere to the surface. You then torch on the side overlap to the recommended size of 150mm. Continue the above method for consecutive rolls remembering end-laps must be minimum 200mm. Inspection of lap joints must be carried out to ensure total adhesion.

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## TECHNICAL SPECIFICATIONS

NOVASEAL SBS (-20°C) products are tested at random intervals by independent laboratories to international standards and the results of these tests are available on request. In addition, each batch manufactured is subject to strict quality control procedures to ensure it meets appropriate and applicable standards and/or norms.

ASTM		PROCEDURE	UNITS	TOLERANCE	VALUE
Length			m	< - 1%	10
Width			m	< - 1%	1
Thickness		ASTM D5147	mm	-0.2mm	4.00
Tensile Properties: Max. Tensile Force	- long	ASTM D5147	N/50mm	-20%	900
	- trans	ASTM D5147	N/50mm	-20%	700
Tensile Properties: Elongation	- long	ASTM D5147	%	-15	50
	- trans	ASTM D5147	%	-15	55
Resistance to Tearing	- long	ASTM D5147	N	min	500
	- trans	ASTM D5147	N	min	400
Lap Joint Strength	- long	ASTM D5147	N/50mm	-20%	900
	- trans	ASTM D5147	N/50mm	-20%	700
Low Temperature Flexibility*			°C	min	-20
Dimensional Stability at +80°C	- long	ASTM D5147	%	mlv	-0.5
	- trans	ASTM D5147	%	mlv	-0.5
Water Absorption		ASTM D5147	%	mlv	<0.15

  

CE		PROCEDURE	UNITS	TOLERANCE	VALUE
Visible Defects		EN 1850-1	N <sup>o</sup> /m <sup>2</sup>	0	0
Length		EN 1848-1	m	< - 1%	10
Width		EN 1848-1	m	< - 1%	1
Straightness		EN 1848-1	mm	<20mm	pass
Mass Per Unit Area		EN 1849-1	kg/m <sup>2</sup>	±10%	4.70
Thickness		EN 1849-1	mm	-0.2mm	4.00
Water Tightness to Liquid Water		EN 1928-1	mlv	>60 kPa	Pass
Tensile Properties: Max. Tensile Force	- long	EN 12311-1	N/5cm	-20%	900
	- trans	EN 12311-1	N/5cm	-20%	700
Tensile Properties: Elongation	- long	EN 12311-1	%	-15	50
	- trans	EN 12311-1	%	-15	55
Resistance to Tearing (nail shank)	- long	EN 12310-1	N	min	230
	- trans	EN 12310-1	N	min	240
Shear Resistance of Joint	- long	EN 12317-1	N/5cm	-20%	900
	- trans	EN 12317-1	N/5cm	-20%	700
Resistance to Static Loading (Method A)		EN 12730	kg	min	25
Resistance to Impact		EN 12691	mm	mlv	>700
Flexibility at Low Temperature*		EN 1109	°C	min	-20
Dimensional Stability	- long	EN 1107-1	%	max	-0.5
Flow Resistance less than 2mm		EN 1110	°C	mlv	100
Reaction to fire		EN 13501-1		Euroclass	F

\*Different Cold Flexibility values can be supplied to special order.

The information given in this datasheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions, etc.



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