

NORDPLAST SBS

Elastomeric polymer bitumen membrane (SBS)



DESCRIPTION

Pre-fabricated waterproofing membrane made of distilled bitumen and elastomeric polymers (SBS). NORDPLAST SBS is specifically developed to waterproof foundation and retaining walls, guaranteeing excellent adhesion and workability. Reinforced with a woven non woven single strand composite polyester, providing good mechanical characteristics and excellent dimensional stability.

Reinforcement: Single strand composite polyester

Compound: Elastomeric polymer bitumen (SBS)

Upper finish: Polypropylene mat / Polypropylene film (available on request)

Lower finish: PE film

Intended use:

EN 13969 Retaining walls (certificate no. CE0958-UKCA0120)

Application method: Torch / Mechanical Fixing

METHODS OF APPLICATION

Prepare the surface with a bituminous primer either by brush or airless, approx. 200/400 g/m².

Position the pre-measured rolls on the vertical application surface, making sure to mechanically fix the upper portion with the appropriate bar and nails.

The membrane is normally applied by gas torch or hot air, making sure to provide for side & head laps, respectively of 10 & 15 cm.

It is always recommended to apply on the external surface of the membrane a dimpled faced protection sheet with drainage functions such as our FONDPLAST (or similar).

Also lay at the bottom of the excavation and over a excess portion of the dimple sheet an appropriate perforated drainage tube.

For further information and news it is recommended to consult the NORD BITUMI technical literature; our Technical Office is always available to evaluate particular problems and to provide the necessary assistance to best apply our waterproofing membranes.

UPPER FACE FINISH WITH WOVEN NON WOVEN POLYPROPYLENE MAT

The particular upper face finish provides multiple advantages, of which:

- improved aesthetics;
- increased tear resistance: useful with mechanical fixing, reduces deformation when fixed with nail and washer;
- facilitates joining of overlaps: the polypropylene mat is perfectly compatible with the waterproofing mass and improves adhesion between the layers (for example with the FONDPLAST dimple sheet for protection & drainage).

APPLICATION

- ✓ On cementitious surfaces and similar apply, by roller or airless, bituminous primer, approx. consumption 200/400 g/m².
- ✓ Position the membrane sheets staggered, making sure to provide side laps of 10 cm; the membranes must be applied to the substrate fully bonded by means of a gas torch or specific hot air machine.
- ✓ Apply the HDPE dimpled faced protection & drainage sheet, with the dimples facing outwards (earth), allowing an excess of approx. 40 cm along the lower part of the excavation, making sure to mechanically fix the higher extremity of the sheet with the appropriate bar and nails.
- ✓ Lay at the bottom of the excavation and over a excess portion of the dimple sheet an appropriate perforated drainage tube.
- ✓ After having laid an appropriate bed of drainage material over the tube, back fill.

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RECOMMENDATIONS

To best use the technical characteristics of bituminous membranes and guarantee the maximum performance and durability of the jobs where they are used, some simple but fundamental rules must be respected.

- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- The application surface must be smooth dry & clean.
- The application surface must be previously treated with a suitable bituminous primer, to eliminate dust and enhance the adhesion of the membrane.
- In situations of application on vertical surfaces superior to 2 meters or on very sloped substrates, apply suitable mechanical fixings to the head laps, after which they will be sealed when torching the head laps.
- The application must be done at temperature higher than +5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.

TECHNICAL SPECIFICATIONS

CHARACTERISTICS	TESTING METHOD	M.U.	TOLERANCE	P
Length/Width	EN 1848-1	m	MLV ≥	10,0 / 1,0
Visible defects	EN 1850-1	visual		None
Mass	EN 1849-1	kg/m ²	MDV ±10%	4
Straightness	EN 1848-1	mm/10 m	MLV	< 20
Watertightness	EN 1928	kPa	MLV ≥	60
External Fire Performance	EN 13501-5			F ROOF
Reaction to fire	EN 13501-1	class		NPD
Maximum tensile strength (L/T)	EN 12311-1	N/50 mm	MDV -20% +50%	500/400
Elongation (L/T)	EN 12311-1	%	MDV -15 +30	35/35
Resistance to tearing (L/T)	EN 12310-1	N	MDV -20% +50%	150/150
Dimensional stability	EN 1107-1	%	MLV ≤	0,5
Peel resistance of joints (L/T)	EN 12316-1	N/50 mm	MDV ±20N	NPD/NPD
Cold flexibility	EN 1109	°C	MLV ≤	-15
Cold flexibility after ageing	EN 1296	°C	MDV +15°C	-10
Flow resistance	EN 1110	°C	MLV ≥	100
Flow resistance after ageing	EN 1296	°C	MDV -10°C	90
Joint strength (shear resistance) (L/T)	EN 12317-1	N/50 mm	MDV -20% +50%	400/300
Resistance to impact	EN 12691-B	mm	MLV ≥	1000
Resistance to static loading	EN 12730-A	Kg	MLV ≥	15
Root resistance	EN 13948			NPD
Watertightness after ageing	EN 1296	kPa	MLV ≥	60

MDV : value declared by the manufacturer associated with a declared tolerance.

MLV : limit value, minimum or maximum, declared by the manufacturer.

NPD : No Performance Declared in accordance with the EU Construction Products Directive.

PACKAGING

PRODUCT	ROLL SIZE	WEIGHT KG/M ²	THICKNESS MM	SQUARE METRES PER PALLET
Nordplast SBS	10 m x 1 m	4	-	300

The waterproofing membrane based on distilled bitumen and polymers, as shown in this data sheet does not require the issue of a MSDS, because it does not contain dangerous substances. The information data sheet for the proper use of products is available. The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

26/02/2025 - This version supersedes all previous ones.