NURALITE
THE FLAT ROOF EXPERTS

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NURAFLUX/PREMSEAL PRIMER –
TECHNICAL DATA SHEET

DESCRIPTION AND AREAS OF USE

Nuraflux Primer is a bitumen based adhesive solvent solution which is specifically formulated to provide excellent adhesion for Nuralite Waterproofing Membranes under many kinds of surface conditions. Nuraflux Primer is an integral part of the Nuralite Waterproofing System and sufficient primer must be used on dry surfaces to condition them to be dust free so that the substrate is suitable for the application of Nuralite Waterproofing Membranes.

Used to prime all structural concrete, masonry, or wood surfaces on which waterproofing membranes will be used.

Designed to be used on applications down to –4°C.

May be used on horizontal surfaces, but remains tacky, and precautions must be used in this application to prevent contamination of the Primer surface prior to installation of the membrane.

May be used on all concrete block and brick wall conditions.

APPLICATION

Nuraflux Primer may be applied with roller, brush or spray. A roller with a heavy nap should be used to carry sufficient material to the area being primed.

Apply all Nuraflux Primer to a clean, dry, dust free and frost free surface at a coverage of approximately 5 sqm/litre. The primer should be spread sufficiently to avoid areas of excess material. Areas of excess material will lengthen the drying time on the application of the primer.

Nuraflux Primer will dry in a minimum of one hour - may dry quicker due to drying conditions, such as wind and warmth.

This product is black in colour and will remain tacky when dry.

The application of primer should be limited to what can be covered with Waterproofing Membrane in one working day. Any areas not covered with membrane during the day must be reprimed - be sure to cover all open containers when not applying primer, as the primer is volatile.

SAFETY, STORAGE & HANDLING INFORMATION

Nuraflux Primer vapours are flammable. User should review Material Safety Data Sheet (MSDS) for this product and follow safety instructions listed therein.

TRANSPORT CLASSIFICATION

IMDG Class 3.1
UN No. 1294

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NURAPLY 3PC - TECHNICAL DATA SHEET

DESCRIPTION AND AREAS OF USE

Nuraply 3PC consists of an impregnated carrier with combination of polyester and glassfleece (280 g/m² for 5 mm thick), covered at the bottom side with flexible polymer bitumen.

The finish of the top surface of this membrane, talcum, admits direct application of road asphalt at a temperature of max. 160°C-200°C or mastic asphalt with a temperature of approx 250 °C.

The positioning of the carrier close to the upper surface of the membrane ensures a thorough adhesion between membrane and substrate.

INSTALLATION METHOD

- Type of protection layer: both mastic asphalt and road asphalt are possible.
- Type of overlay for the application: road asphalt is also possible over protection layer of mastic asphalt
- Intended use and method of application: for waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles.

TECHNICAL SPECIFICATIONS (average values)

Characteristic	Test Method	Unit	Expression of result	Value or statement
Watertightness pretreatment	EN 14694	—	Pass	1000 cycles of 500 kPa on membrane without
Initial amount of mineral surface protection	EN 12039: 1999 Annex B	g/m2	MDV	150g/m² ± 100 g/m²
Tensile properties: max	EN 12311-1	N/50mm	MDV± 20 %	Thickness 5 mm: L 1000 N / T 900 N
Tensile properties:	EN 12311-1	%	MDV ± 15 %	Thickness 5 mm: 35 %
Water absorption	EN 14223	%	MLV	≤ 0,5 %
Flexibility at low temp	EN 1109	°C	MLV	initial ≤- 15 °C
Flow resistance at elevated temperature	EN 1110	°C	MLV I	nitial ≥ 130°C
Dimensional stability / 24 h at 80°C	EN 1107-1	%	MLV	EN 1107-1: ≤0,2%
Dimensional stability at elevated temp/ 1 h at 160°C	EN 1107-1 + Annex B of EN	%	MLV	≥ -0,5%
Thermal ageing by long term exposure to elevated temperature; 12 weeks @ 70°C	EN1296	EN 1109 EN 1110	MDV	Flexibility at low T° ≤- 5 °C Flow resistance at elevated T° ≥ +110°C
Bond strength on concrete	EN 13596	N/mm2	MLV	at 10°C: ≥ 1N/mm² at 23°C: ≥ 0.8N/mm² at 30°C: ≥ 0.6N/mm²

Characteristic	Test Method	Unit	Expression of result	Value or statement
Bond strength on system concrete + membrane + protection layer	EN 13596	N/mm2	MLV	With mastic asphalt at 23°C: ≥ 0.3 N/mm²
Bond strength on concrete + bitumen leveling layer + membrane	EN 13596	N/mm2	MLV	at 23°C: ≥ 1N/mm²
Shear strength before ageing Concrete+primer+ Polybridge+asphalt	EN 13653	N/mm2	MLV	with mastic asphalt ≥0.2N/mm2 with road asphalt ≥0.3N/mm2
Bond strength after ageing 12 w @ 70°C on system concrete + bitumen leveling layer + membrane + protection layer	EN 1296 + EN 13596	N/mm²	MLV	with mastic asphalt ≥ 1.00 N/mm²
Crack bridging ability	EN 14224 or Annex E of this European Standard	°C	Pass test temp	- 10°C
Compatibility by heat conditioning 91 days @ 50°C on system concrete + membrane + protection layer	EN 14691 + EN 13653	% of initial value	MLV	With mastic asphalt: +170 % With road asphalt: + 140 %
Compatibility after 20 freeze-taw cycles according EN 13687-1 on system concrete + membrane + protection layer	EN 13687-1 + EN 13653	% of initial value	MLV	With mastic asphalt +143%
Resistance to compaction of an asphalt layer	EN 14692 + EN 1928	-	Pass	pass result

DIMENSIONS
- Thickness : 5 mm
- Length : 10 m
- Width : 1 m
- Surface : 10 m²
- Average weight : 57 kg

FIXING
Torching method

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