

TECHNICAL DATA SHEET

DESCRIPTION

BITUTHENE® 3000 is a high performance, cold-applied, flexible, preformed factory controlled thickness waterproof membrane combining a special high performance, cross-laminated, HDPE carrier film with a unique self-adhesive rubber bitumen compound.

Waterproof membrane with high hydrostatic head resistance. The high density cross-laminated polythene film provides dimensional stability and puncture resistance. A simply single layer, reliable, low labour cost with the benefit of site programmed installation.

Gas resistant to methane, carbon dioxide and radon gas protection in excess of the standard requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide). Provides external chemical resistance for effective protection against aggressive environments and ozone attack.

Cold applied with no flame or heating required. Self-adhesive rubberised asphalt, ensuring continuity at overlaps and reinforcements. Unique rubber/bitumen formulation allows healing of small punctures and allows flexibility to accommodate minor settlement and shrinkage movement.

TECHNICAL SPECIFICATIONS

Test Method	Technical Specifications	Unit of Measurement	Nominal Value
N/A	LENGTH	m	20
N/A	WIDTH	m	1
N/A	NOMINAL THICKNESS*	mm	1.5
N/A	GROSS WEIGHT	kg	39
ASTM D412 modified**	TENSILE STRENGTH OF MEMBRANE		4N/mm
ASTM D412 modified**	ELONGATION OF MEMBRANE (to ultimate failure of membrane)		200%
ASTM D1876	LAP ADHESION @ 23°C		683N/m
ASTM C836	CYCLING OVER CRACK @ -32°C		No effect over 100 cycles
ASTM E154	PUNCTURE RESISTANCE OF MEMBRANE		>220N
ASTM D5385	RESISTANCE TO HYDROSTATIC HEAD		60m
ASTM E96 (12)	PERMEANCE		1.9na Pa. m2. S

Typical test values represent average values from samples tested. Test methods noted may be modified. * Nominal thickness refers to the thickness of the membrane without release liner. ** The test is run at a rate of 100 mm per minute. Please consult your local NURALITE representative on recommended installation temperature.

AREA OF USE

Basements, sub-structures, elevated or grade level podiums.

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INSTRUCTIONS FOR USE

Surface preparation:

- Concrete must be dry, clean and free from sharp projections such as nail heads and concrete nibs.
- Remove all surface imperfections, protrusions, cavities, structurally unsound and friable concrete and repair with NURAPATCH.
- Remove contaminants such as grease, oil, dust, dirt, loose stones, debris and wax from exposed concrete.
- Concrete must be properly dried (minimum 28 days for normal structural concrete and 14 days for lightweight structural concrete).
- Substrate should be prepared using BITUTHENE ® 3000 solvent primer, at the recommended rate (approximately 6/8m² per litre depending on porosity) prior to installation of BITUTHENE ® 3000.
- Primer should be dry before the application of the membrane. Drying time depends of the temperature and humidity.
- Apply NURALITE bitumen fillets where required before membrane placement.

Alignment:

- Start the installation of all membrane plies from the low point or drains, so the flow of water is over or parallel to the plies, but never against the laps. All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps.
- Begin membrane application by unrolling the roll of BITUTHENE ® 3000 membrane and aligning the side laps. Re-roll the roll halfway and hold on the unrolled portion to prevent shifting.

Membrane installation:

- Unroll only the required length of BITUTHENE ® 3000, and cut the piece to the desired shape and size.
- Place the pieces of BITUTHENE 3000® on the area to be covered, and check whether they match with the profile of the marked substrate.
- Peel off the release film from the self-adhesive side and place the membrane so as to ensure a minimum overlap of 50 mm.
- Start unrolling the membrane and press it firmly against the surface, from the middle to the edges in order to drive out entrapped air with a wooden press or roller.
- The surface to be overlapped should be dust free and the membrane must be firmly pressed down to ensure a watertight bond.
- Apply BITUTHENE 3000® reinforcing strips 300mm wide where required.

Protection system:

- In order to prevent damages, BITUTHENE ® 3000 must be protected with NURADRAIN protection board as soon as possible.

INDICATIONS AND IMPORTANT RECOMMENDATIONS

- BITUTHENE 3000® should not be applied when temperature is below +10° without consultation with the NURALITE representative.
- Must be stored in a dry place protected from rain, sun, heat and cold temperatures.
- Sun exposure of the product may difficult the removal of the polyethylene non-stick film. In service, maximum temperature should be below 50°C.

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- BITUTHENE 3000® should be kept exposed to the sun for the minimum possible time in order to prevent from U.V. rays damage. It is recommended to cover BITUTHENE ® 3000 within a few hours after application.

Full application instructions are covered in the BITUTHENE ® 3000 Method Statement, and BITUTHENE 3000® details.

SAFETY, STORAGE & HANDLING INFORMATION

Do not stack pallets
Store indoors

TRANSPORT CLASSIFICATION

N/A

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

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