

NURASEAL TECHNICAL DATA SHEET

DESCRIPTION AND AREAS OF USE

NURASEAL are excellent quality waterproofing membranes made with *ADESO*® technology, the new compound layering system from Polyglass SpA. NURASEAL is produced with an elastomeric compound (SBS), armed with a reinforced with glass fibre and presents a cross-laminated high density polyethylene film (HDPE) on the upper side which makes the external part of the compound more mechanically resistant, making the product particularly useful for foundations, for waterproofing vertical surface, (walls, percolating water) or as an antihumid when applied under the floor. Lateral and end-lap overlap are totally adhesive in order to guarantee maximum overlapping bonding.

NURASEAL's adhesive lower side is protected with a monosiliconized polyethylene film, divided longitudinally in two parts, which must be removed right before the application. NURASEAL is designed for waterproofing the lower storey of a building which is wholly or partly below ground where there is no risk of hydrostatic water pressure. As a pitched roof underlay.

TECHNICAL SPECIFICATIONS

Test Method	Technical Specifications	Unit of Measurement	Nominal Value
EN 1848-1	LENGTH	m	≥15
EN 1848-1	WIDTH	m	≥1
EN 1848-1	STRAIGHTNESS	mm/10m	Exceeds
EN 1849-1	THICKNESS	mm	1.8(±0.2)
EN 1849-1	MASS PER UNIT AREA	kg/m ²	NPD
EN 1928-B	WATERTIGHTNESS	kPa	Exceeds
EN 1928-B EN 1296	WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	kPa	Exceeds
EN 1928-B EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	Exceeds
EN 13897	WATER TIGHTNESS AFTER STRETCHING	%	-
EN 13501-1	REACTION TO FIRE	Euroclass	F
EN 12317	SHEAR RESISTANCE	N/50mm	300(-20%)
EN 12311-1	TENSILE PROPERTIES MAXIMUM LOAD AT BREAK Longitudinal Transversal ELONGATION AT BREAK Longitudinal Transversal	N50/mm N50/mm % %	500(-20%) 400(-20%) 100(-20) 100(-20)
EN 12691-A	RESISTANCE TO IMPACT	mm	≥300
EN 12730-A	RESISTANCE TO STATIC LOADING	kg	≥5

EN 12310-1	RESISTANCE TO TEARING Longitudinal Transversal	N N	200(-30%0 200(-30%)
EN 1107-1	DIMENSIONAL STABILITY	%	≤0.3
EN 1109	COLD FLEXIBILITY	°C	≤-25
EN 1931	WATER VAPOUR PROPERTIES μ	-	20000
EN 1850-1	VISIBLE DEFECTS	-	ABSENT

Respecting the EN 13969 TYPE T (foundation)

TYPE AND MATERIAL

Upper face: Cross-laminated high density polyethylene film HDPE.

Lower face: Removable monosiliconized film of self-adhesive compound.

PRODUCT DIMENSIONS

1.5mm x 1m x 20m.

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 NURAFLEX QD primer, at the recommended rate (approximately 5/m² per litre depending on porosity) prior to installation of NURASEAL.
- Primer should be dry before the application of the membrane. Drying time depends of the temperature and humidity.

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 NURASEAL 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 NURASEAL, and cut the piece to the desired shape and size. - Place the pieces of NURASEAL 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 80 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.
- The surface to be overlapped should be dust free and the membrane must be firmly pressed down to ensure a watertight bond.

Protection system:

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

INDICATIONS AND IMPORTANT RECOMMENDATIONS

- NURASEAL should not be applied when temperature is below +10°.
- 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.
- NURASEAL 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 NURASEAL within few hours after application.

SAFETY, STORAGE & HANDLING INFORMATION

Do not stack pallets
Store indoors

TRANSPORT CLASSIFICATION

N/A

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