

Technical Data Sheet Elotene DSN

Product Description / Use:

Elotene DSN is a self-adhesive bituminous membrane that forms a barrier against vapour and gases. Consisting of a self-adhesive bituminous compound reinforced by a composite aluminium foil with integral glass-fibre mat.

The upper foil surface is polyester coated offering protection from alkalis and provides a surface on to which MOY polyurethane insulation adhesives will adhere.

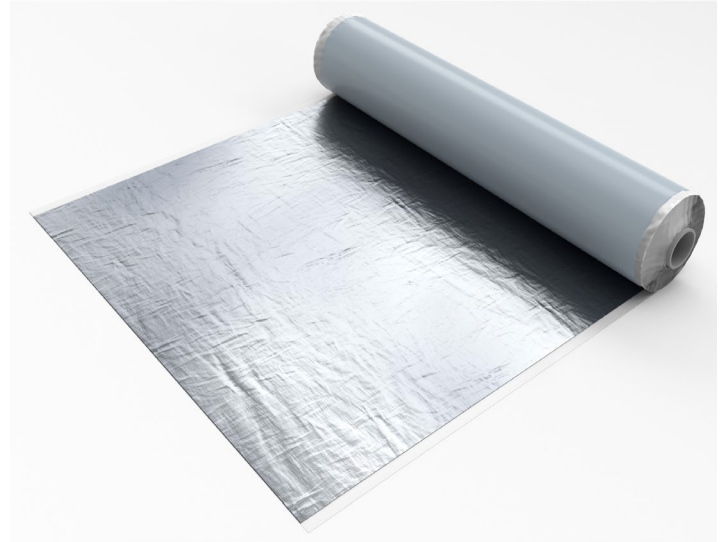
The exceptionally high vapour resistance enables use in buildings with extreme internal conditions and high humidity such as sports halls, swimming pools, bathrooms, kitchens and wet industrial processes.

Fast and easy installation achieves waterproofing of a roof structure prior to the installation of the insulation and CE Declaration of Performance is available on request, providing a vapour barrier without the need for hot works or naked flame in application.

Suitable for use on most common substrates such as concrete, plywood/OSB and metal decks. The high integral strength of Elotene DSN withstands puncturing from foot traffic when used on profiled metal decks

Only suitable for use in temperatures above +5°C.

Whilst its primarily used as an AVCL in warm roofs, it can also be used as a carrier layer within a cold applied liquid waterproofing system, such as the Enkopur 1K PU coating.



Certification:



System Fire Testing:

Classification Standard BS EN 13501-5: 2016

Test Standard: CEN/TS 1187:2012

Determination of external fire performance is a system test which will be influenced by the components within the roofing system.

Whilst Elotene DSN may be included in compliant B_{ROOF (t4)} systems, always check with MOY Technical Services for the very latest information on fire testing carried out.



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Technical Specification:

Characteristics	Value	Test
Thickness	0.6mm 1000	EN 1849-1
Roll weight	±28 kg*	-
Tensile Strength	Long. >600 N/50mm Trans. >600 N/50mm	EN 12311-1
Elongation at Break	Long. >5% Trans. >5%	EN 12311-1
Static Load Resistance	Met. A 5kg Met.B 20kg	EN 12730
Tear Resistance (Nail Shank)	Long. 190N Trans. 190N	EN 12310-1
Peel Resistance of Joints	40N / 50mm	EN 12316-1
Shear Resistance of Joints	Long. >400 N/50mm Trans. >400 N/50mm	EN 12317-1
Impermeability	Pass ≥ 60 Kpa	EN 1928
Water Vapour Impermeability	>1,500m	EN 12572
Water Vapour Resistance	13,200 MN.s/g / Pass (Sd ≥ 1500m)	ISO EN 12572
Water Vapour Transmission	μ 4,400,000 ±30%	EN 1931
Application Temperature	+5°C / +45°C	-
Service Temperature	40°C / +80°C	-
Fire Behaviour	Class E	EN 13501-1
Inflammability Classification	B2	DIN 44102

* The figures shown in the data can vary with a tolerance of +/- 5%. Roll weight can vary with a tolerance of +/-10%

Approvals/Standards	
EN 13970 type A e T	Flexible sheets for Waterproofing. Bitumen Vapour control layers.
Water Vapour Resistance	Non-Hazardous
Total Volatile Organic Compound emissions (TVOC)	8μ/m ³ Tested by eco-INSTITUTE, following SINTEF standard, ISO 16000-6
Quality Management System	EN ISO 9001
CE Marked	EN 13970

Delivery form:

40m long x 1.08m wide rolls = 28kgs. 25 x rolls per pallet.

Application:

Fully prime the suitably prepared surface with MOY SA Primer, in order to aid initial and long-term adhesion of the membrane.

Ensure the ambient temperature and surfaces are within the application temperature guidelines.

Prior to installation the substrate must be:

- Dry, sound and smooth.
- Clean; free from dust and impurities - Without tension or blisters.

If necessary degrease metal with a suitable cleaner.



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The use of MOY Primer SA is required to maximise adhesion. Primer will also aid installation at the lower temperature (see technical data).

Unroll the membrane and align. Application must be perpendicular to the roof falls and overlapped at edges by 50-80mm and at least 150mm at roll ends.

Remove the release film and apply pressure via a water filled roller (field areas) or 40mm silicone roller (upstand details) to ensure full adhesion of the carrier layer to the substrate, being careful not to trap air pockets.

When installed as a carrier membrane during higher than normal temperatures, or where exposed during continued periods of direct sunlight, install the Enkopur liquid waterproofing system as soon as possible, but preferably within 24/36 hours maximum.

Protect the membrane from UV rays within 1 - 2 weeks post installation.

Storage:

Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5 °C and +35 °C. They must be protected from direct sunlight, rain, snow and ice.

Shelf life:

They can be stored for up to 12 months in cool, dry conditions.

Safety:

Elotene DSN is not hazardous for normal use, however it is possible to cut or obtain injury. The use of protective gloves is recommended.

Disposal:

Information for this product is given in the Safety Data Sheet.