



Elotene DSN



The Product

- **Forms a total vapour barrier**
- **Cold applied without use of flames**
- **Waterproof & self-adhesive**
- **Excellent puncture resistance**
- **High tear resistance and tensile strength**
- **Self-sealing**
- **Fast installation**

Self Adhesive Total Vapour Barrier

Product Description

Elotene DSN is a self-adhesive bituminous membrane that forms a barrier against vapour and gases. Consisting of a self-adhesive bituminous compound re-enforced 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 **InStar INSTA-STIK** and most other polyurethane 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

waterproofing, 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.

Dimensions & Packaging

- Length: 40m
- Thickness: 0.6mm
- Width: 1080mm
- Roll Weight: 28kg
- 25 rolls per pallet



Surface Preparation and Installation

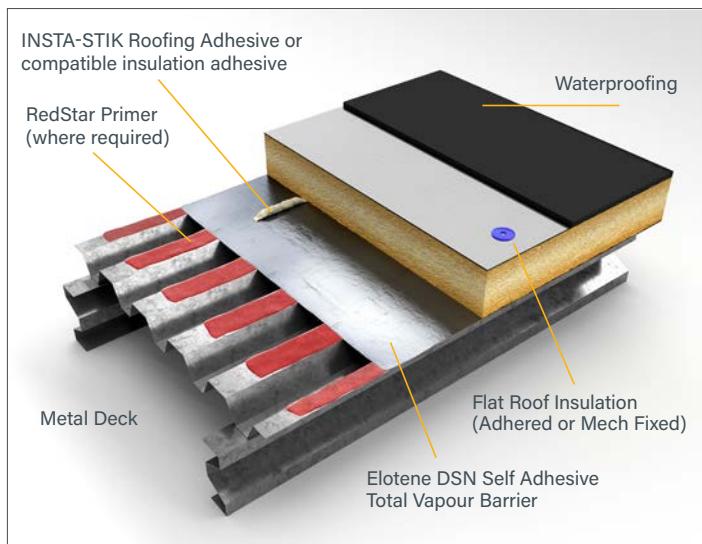
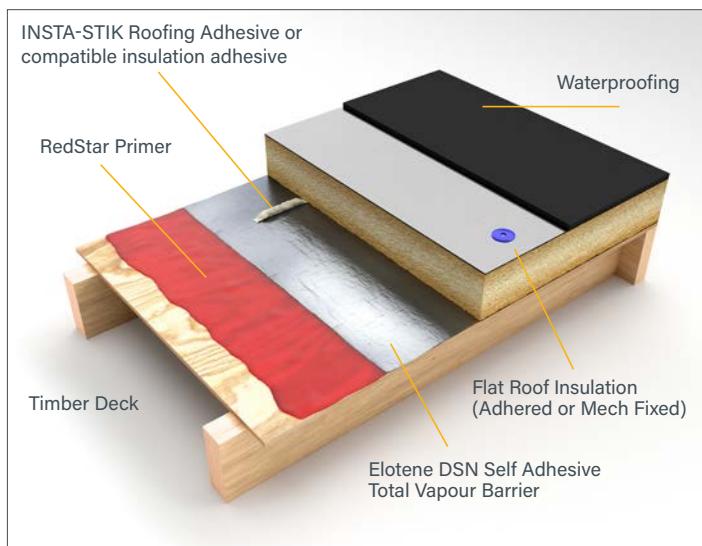
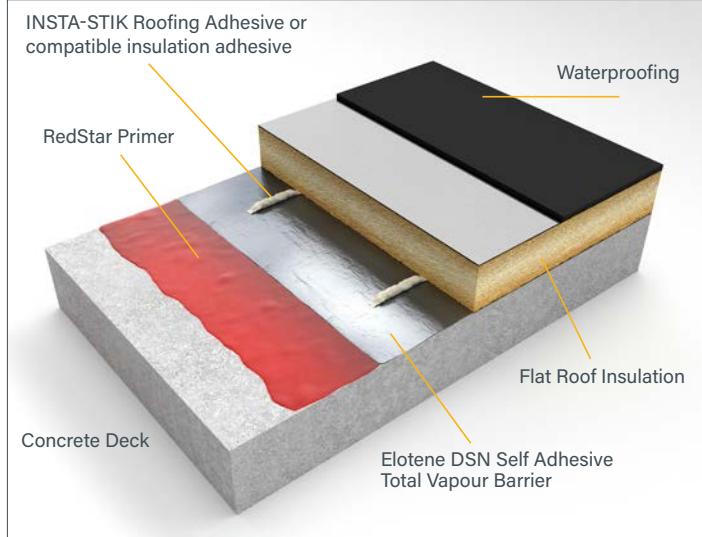
- Ensure the ambient temperature and surfaces are within the application temperature guidelines.
- Prior to installation the substrate must be:
 - Dry, sound and smooth
 - Clean; free from dust and impurities
 - Without tension or blisters.
- If necessary degrease metal with a suitable cleaner.
- The use of RedStar Primer will maximise adhesion and is required where the surface is porous and on all vertical surfaces.
- Primer can also aid installation at the lower temperature (see technical data). The use of primer where application is to a new, clean and oil free metal is generally not required.
- 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 evenly press down on the surface well by hand, heavy broom or roller being careful not to trap air pockets.
- Protect the membrane from UV rays within one/two weeks post installation.

RedStar Primer

RedStar Primer is designed for use with self adhesive SBS modified bitumen roofing membranes and is intended for use on concrete and various porous substrates to aid initial and long term adhesion of the membrane particularly when application is taking place at the lower end of the temperature range (+5°C) for these Membranes. See data sheet for more information.



Substrate	Typical Coverage RedStar Primer
Concrete (subject to type, quality and porosity)	7 m ²
Plywood / OSB	8-9 m ²
Metal	10 m ²



This information given in good faith and is based on the latest knowledge available to InStar UK Ltd. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice.



Technical Data Elotene DSN600

Characteristics	Value	Test
Thickness	0.6mm (other thicknesses available)	EN 1849-1
Roll weight	±28 kilos*	-
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
Sheer 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	Pass (Sd ≥ 1500m)	EN ISO 12572:2016
Application Temperature	+5°C / +45°C	-
Service Temperature	-40°C / +80°C	-
Reaction to Fire	Class E	EN 11925 - 2; EN 13501 - 1
Inflammability Classification	B2	DIN4 4102

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/m3 Tested by eco-INSTITUTE, following SINTEF standard, ISO 1600-6:2021
UKCA	EN 13970

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

Storage

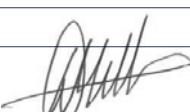
Store rolls in a vertical position protected from sunlight, rainfall/snow and heat. Protect against frost. The product is best used within 12 months.

Caution and Safety

It is possible to cut or injure oneself whilst using Elotene DSN. The use of protective gloves is recommended. RedStar Primer is to be used in a well-ventilated area.

For further information refer to the relevant Safety Data Sheet.

The manufacturer reserves the right to update this information on a regular basis.

REVISED VERSION	SIGNED BY	LOCATION/ POSITION	DATE
V3	D. MILLS		Market Harborough/ National Sales Manager

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