

SELF-DAN AL

Self-adhesive SBS elastomeric, easy peel foil faced membrane.



SELF-DAN AL 100 is a self-adhesive membrane manufactured with bituminous selected mastic modified with high performance SBS polymers, this will provide self-healing properties, easy application and great durability. As a top layer it has a an aluminum foil of 60/1000 mm natural color. At the bottom side it has a releasable film.

Presentation

- Length (cm): 1000
- Width (cm): 100
- Colour: Natural
- Thickness (mm): 1.2
- Product code: 205017

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	1.2	-
External fire behaviour	Froof	UNE-EN 1187;UNE-EN 13501-5
Durability flexibility	NPD	-
Creep durability (°C)	NPD	UN-EN 1110
Elongation at break longitudinal (%)	NPD	UNE-EN 12311-1
Elongation at transverse break (%)	PND	UNE-EN 12311-1
Water vapour resistance factor (μ)	20000	EN 1931

Concept	Value	Standard
Low temperature flexibility (°C)	< -15	UNE-EN 1109
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	NPD	UNE-EN 12730
Resistance to root penetration	No pasa	EN 13984
Longitudinal tensile strength (N / 5cm)	200 ± 100	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	200 ± 100	UNE-EN 12311-1
Longitudinal resistance to tearing (nail shank) (N)	NPD	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	NPD	UNE-EN 12310-1
Resistance to impact, A (mm)	NPD	UNE-EN 12691
Joint Strength: Welding Shear	200 ± 100	UNE-EN 12317-1
Resistance to root penetration	No pasa	EN 13984

Additional Technical Data

Concept	Value	Standard
Density (kg/m³)	1000	-
Adhesion of granules (%)	NPD	UNE-EN 12039
Creep resistance at high temperatures (°C)	>70	UN-EN 1110
Durabilidad UV; calor y agua: Flexibilidad a baja temperatura (°C)	NPD	-
Durabilidad UV; calor y agua: Fluencia a alta temperatura (°C)	NPD	-

Environmental Information

Concept	Value	Standard
Radon diffusion coefficient (m² / s)	< 1.0, Exp -13	ISO/DTS 11665-13
Volatile organic compounds (COV's) (µg/m³)	50 (A+)	ISO 16000-6:2006
Post-consumer recycled content (%)	35	-
Manufactured in	Fontanar - Guadalajara (España)	-

Standards and Certification

- In accordance with the UNE-EN 13707 standard 'Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics'.
- In accordance with the UNE-EN 13969 standard for 'Flexible sheets for waterproofing - Bitumen damp proof sheets including bitumen basement tanking sheets - Definitions and characteristics'.

Scope

- Anti-capillary barrier in walls.
- Radon gas barrier.
- Air and Vapour Control Barrier (AVCL) in roofs and cold stores.
- In meetings of sloping skirts with vertical walls.
- In general, in all types of sealed.
- In window and door frame finishes.
- Timely renovation of sloping roofs made of aluminium, steel sheet, mortar, concrete, fibre cement, tiles, etc.

Advantages & Benefits

- Modified with SBS polymers, it achieves much higher performance in behavior at high and low temperatures, elasticity and resistance to aging, which leads to improved durability of the membrane .
- Self-Adhesive, Flame-Free application.
- Outstanding Adhesion
- Easy to install.
- High resistance to weathering.
- Total impermeability to water, water vapour and Radon gas.
- Allows for adaptation to any type of geometry.
- UV resistant.
- Adapts to the substrate geometry with ease.

Instruction for Use

Preparation of the substrate:

- The surface of the base substrate must be resistant, uniform, smooth, clean, dry and free of foreign bodies.
- A bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) must be applied beforehand.
- The rolls are preferably laid parallel to the line of maximum slope.
- The adhesion of the film to the substrate is achieved by removing the film from the underside and at the same time pressing with a blunt scraper or with gloves, from the inside outwards to avoid the formation of pockets. The overlaps must be made in the same way from roll to roll, and shall be 6 cm in the longitudinal direction and 8 cm in the transversal direction.
- For easier installation, it may sometimes be necessary to cut the rolls into smaller, more manageable dimensions.

Indications and Important Recommendations

- It should be kept in the sun for as short a time as possible to protect it from UV rays.
- In case of new construction and renovation, possible chemical incompatibilities with APP plastomer-modified bitumen sheets shall be taken into account.
- In case of refurbishment, chemical incompatibilities with old waterproofing systems consisting of PVC membranes, modified tar-based mastics or any other, shall be taken into account, and it may be necessary to remove them completely or to use suitable separating layers.
- If it is necessary to adhere to metallic or slightly porous elements, a bituminous primer (IMPRIDAN 100) must be applied to the entire surface to be bonded beforehand.
- Not suitable on flat roofs as permanent waterproofing layer.
- During cold weather, the substrate, if uncombustible, can be heated with the torch or other means.
- This product may form part of a waterproofing system, so all the documents referred to in the Danosa Solutions Manual must be taken into account, as well as all the regulations and legislation that must be complied with in this respect.
- Exposure to the sun can make it difficult to remove the release film. The temperature of the membrane during installation must not exceed 50°C.
- It must not be installed when the ambient, product or substrate temperature is below +10°C.
- There is no chemical incompatibility between the Danosa range of SBS elastomeric bitumen and APP plastomeric bitumen membranes.
- Not suitable as cap sheet on green roofs; use GARDEN variant.
- Do not use on roofs that are subsequently to be covered with heavy protection, be it paving, gravel or topsoil (in case of green roofs), or any other type of protection.
- Do not use for waterproofing buried walls.
- For ease of installation, it is recommended to cut the rolls into smaller, more manageable dimensions.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- Polyurethane foam shall not be sprayed directly on top of the waterproofing without the use of a suitable separating layer (geotextiles, mortar layers, polyethylene film, etc).
- The use of a roller is recommended to apply more pressure on the tape and improve adhesion.
- It is recommended to protect after installation.
- On porous or not very homogeneous substrates, a bituminous primer must be applied before application.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".

Maintenance Recommendations

- Please refer to DANOSA UK Technical Statement 'Flat Roof Waterproofing – Cleaning and Maintenance Recommendations'

Handling, storage and preservation

- Before moving the pallet, check the condition of the shrink-wrap and reinforce if necessary.
- As this product is not designed for uv-exposed conditions danosa advise that when used as an air and vapour control layer, the product is protected as soon as reasonably possible within a normal sequence of work. However, under normal circumstances and conditions this product may function temporary waterproofing layer for up to 2 weeks. Extreme weather conditions may significantly reduce this exposure time. Over-exposed products may require localised repair and/or replacement
- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product must be stored horizontally.
- The product will be used on a first-come, first-served basis.
- In cold weather, it is advisable to slightly heat the support with the blowtorch.
- This product should not be installed when the ambient, product or support temperature is below

+10°C.

- This product is not toxic or flammable.
- Exposure to the sun can make it difficult to remove the release film. The temperature of the sheet during installation must not exceed 50°C.
- Waterproofing work must not be carried out when weather conditions may be detrimental, in particular when it is snowing or there is snow or ice on the roof, when it is raining or the roof is wet, surface dampness >8% according to NTE QAT, or when a strong wind is blowing.
- Pallets shall not be stacked on top of each other.
- For high storage, the racks must have three cross members, or braces under the wooden pallet skids.
- For handling with a crane, use a protective net as indicated on the pallet label.
- Danosa recommends consulting the safety data sheet for this product, which is permanently available at danosa.com, Knowledge Portal, or it can be requested from our Technical Department.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- For further information, please contact our Technical Department.

Notice

- The information contained in this document and any other advice provided, are given in good faith, based on DANOSA's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of DANOSA. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the DANOSA Technical Service before using the DANOSA products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. The product images used in our communications are indicative and may differ slightly in color and aesthetic appearance in relation to the final product. Orders are accepted in accordance with the terms of our current General Sales Conditions. DANOSA reserves the right to modify, without prior notice, the data reflected in this documentation. Website: **www.danosa.com** E-mail: **info@danosa.com** Telephone: **+34 949 88 82 10**