

SELF-DAN PE

Self-adhesive SBS elastomeric, easy peel 1.5mm membrane.



SELF-DAN PE is a self-adhesive membrane manufactured with bituminous selected mastic modified with high performance SBS polymers, this will provide, easy application and great durability. As a top layer it has a HDPE film, which will provide better mechanical resistance, puncture resistance (static and dynamic) and high elongation characteristics. At the bottom side it has a releasable film.

Presentation

- Length (cm): 2000
- Width (cm): 100
- Thickness (mm): 1.5
- Product code: 192200

Technical Data

Concept	Value	Standard
External fire behaviour	NPD	UNE-EN 1187;prUNE-EN 13501-5
Durability flexibility	NPD	-
Creep durability (°C)	NPD	UN-EN 1110
Elongation at break longitudinal (%)	45 ± 15	UNE-EN 12311-1
Elongation at transverse break (%)	45 ± 15	UNE-EN 12311-1
Water vapour resistance factor (μ)	115000	EN 1931
Low temperature flexibility (°C)	< -15	UNE-EN 1109
Reaction to fire	F	UNE-EN 11925-2; UNE-EN 13501-1

Concept	Value	Standard
Resistance to static loading (kg)	5	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)	180 ± 50	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	180 ± 50	UNE-EN 12310-1
Resistance to impact, A (mm)	400	UNE-EN 12691
Joint Strength: Welding Shear	200 ± 100	UNE-EN 12317-1
Hazardous substances	PND	-
Resistance to root penetration	No pasa	EN 13984

Additional Technical Data

Concept	Value	Standard
Adhesion of granules (%)	PND	UNE-EN 12039
Dimensional stability at elevated temperatures (longitudinal) (%)	<2.5	UNE-EN 1107-1
Dimensional stability at high temperatures (transversal) (%)	<2.5	UNE-EN 1107-1
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)	2.4 Exp -12	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'.
- In accordance with the UNE-EN 13859-1 and UNE-EN 13859-2 standards for flexible sheets for waterproofing. Definitions and characteristics of auxiliary sheets.
- Complies with CE marking requirements.

Scope

- Radon gas barrier.
- Waterproofing of buried structures and foundations.
- Waterproofing sheet under tiles on pitched roofs.
- Tanking membrane.
- It is used for waterproofing basement walls, made of concrete or rendered solid brick, provided that the solution is previously primed on the substrate and the sheet is protected with a DANODREN type drainage sheet on the outside face in contact with the ground.
- It is also used under tiles on pitched roofs to ensure that the roof is watertight in the event of displacement or breakage of the pieces.

Advantages & Benefits

- Application at room temperature.
- Ensures the airtightness of the roof against tile breakages.
- Helps to increase the durability of the sheet.
- It retains its properties better over time.
- Ease and speed of installation
- Total impermeability to water and water vapour.
- Rot-proof.
- The membrane, composed of a polymer-modified bitumen mastic that substantially improves on other bituminous mastics, provides better performance in terms of reaction at high and low temperatures, elasticity and resistance to ageing, which leads to greater durability of the sheet and greater safety of the waterproofing membrane.
- Very stable in the long term.
- Perfectly adheres to a large number of substrates (concrete, fibre, cement, metal, tile, etc.).
- 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 previous cleaning of the substrate is recommended.
- In the case of porous or inhomogeneous substrates, adhesion tests and application of CURIDAN bituminous primer are recommended.

Waterproofing:

- Waterproofing on the outside back of walls: a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) must be applied beforehand. The rolls are placed in a vertical position. The film is

adhered to the substrate by removing the film from the underside and at the same time pressing with a blunt scraper or with gloves from the inside out to avoid the formation of pockets. The overlaps should be made in the same way from roll to roll, and should be 8 cm in both longitudinal and transversal directions. For easier installation, it is recommended to cut the rolls into smaller, more manageable dimensions.

- Other uses: A bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) should be applied beforehand. The adhesion of the film to the substrate is done by removing the film from the underside and pressing at the same time 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 8 cm. in both longitudinal and transversal directions.
- Under tile sheeting in adhered system with heavy protection: 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 8 cm. in both longitudinal and transversal directions.

Indications and Important Recommendations

- As with any self-adhesive product, it is important that the surfaces to be glued are as clean as possible.
- 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) shall be applied to the entire surface to be welded 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 plastomeric bitumen sheets.
- Not suitable as cap sheet on green roofs; use GARDEN variant.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- A separating layer (DANOFELT or DANODREN) must be laid before laying the heavy protection (paving, gravel, topsoil, etc.), except in the case of waterproofing under tiles.
- 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).
- It is recommended to protect after installation.
- If expansion that could affect the sheet is expected, a geotextile separating layer (Danofelt PY 200) shall be used between the sheet and the extruded polystyrene insulation panels, so that each product expands independently.
- Once installed, the product must not be exposed to UV rays.
- 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.
- The product should be kept in the sun for the shortest time possible to protect it from UV rays
- 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.
- It is recommended to protect the product shortly after installation.
- Once installed, the product must not be exposed to UV rays.
- 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**