

SELF DAN PE PLUS.

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



SELF DAN PE PLUS 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 cross laminated HDPE film, which will provide better mechanical resistance, puncture resistance (static and dynamic), high elongation and high dimensional stability characteristics. At the bottom side it has a releasable film.

Presentation

- Length (cm): 2000
- Width (cm): 100
- Thickness (mm): 1.5
- Product code: 192235

Technical Data

Concept	Value	Standard
External fire behaviour	PND	UNE-EN 1187;prUNE-EN 13501-5
Elongation at break longitudinal (%)	100 ± 20	UNE-EN 12311-1
Elongation at transverse break (%)	100 ± 20	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
Resistance to static loading (kg)	5	UNE-EN 12730

Concept	Value	Standard
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
Dielectric strength (in air, 25 °C Cl. Nº 12.1.1)~ Value	9.6	ASTM D149-09
Volume resistivity (500 V dc – 60 s Cl. Nº 12.2) (Ω·cm)	6.3	ASTM D257-14

Environmental Information

Concept	Value	Standard
Post-consumer recycled content (%)	35	-
Manufactured in	Fontanar - Guadalajara (España)	-

Scope

- Radon gas barrier.
- Bituminous vapour barriers
- Waterproofing of buried structures and foundations.
- Waterproofing in wet areas such as bathrooms, kitchens, terraces (under tiles).

- 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.
- The texture of the outer face favors resistance to slipping on pitched roofs.

Instruction 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 a suitable repair mortar. _
- Remove contaminants such as grease, oil, dust, dirt, loose stones, debris and wax from exposed concrete. _
- Concrete must be properly dried (minimum 7 days for normal structural concrete and 14 days for lightweight structural concrete). _
- Substrate should be prepared using a primer either IMPRIDAN 100, CURIDAN, MAXDAN or MAXDAN CAUCHO, at the recommended rate (approximately 0,200-0,300 kg/m²) prior to installation of SELF DAN PE PLUS. _
- 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 SELF DAN PE PLUS 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 SELF DAN PE PLUS and cut the piece to the desired shape and size.
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- Place the pieces of SELF DAN PE PLUS 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, SELF DAN PE PLUS must be protected by a protection layer as soon as possible.

Indications and Important Recommendations

- Store in a dry place, protected from rain, sun, high and low temperatures.
- 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 is 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).
- If expansion that could affect the sheet is expected, a separating layer shall be used between the sheet and the extruded polystyrene insulation boards, so that each product expands independently.

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.
- 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**