ESTERDAN 30 P ELAST AUTOADHESIVE

Tough 3kg/m² SBS elastomeric underlay. Self-adhesive.



BBA 10/4787 (1)

Bituminous SBS modified membrane reinforced with a non-woven polyester felt. Underlay membrane for full-bond applications with easy peel polyethylene film finish.

Presentation

- Length (cm): 1200
- Width (cm): 100
- Thickness (mm): 2.5
- Product code: 141801

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m²)	3	-
External fire behaviour	Broof(t1)	UNE-EN 1187; UNE-EN 13501-5
Durability flexibility	-5 ± 5	-
Creep durability (ºC)	100 ±10	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)	20.000	UNE-EN 1931
Low temperature flexibility (ºC)	<-15	UNE-EN 1109

Concept	Value	Standard
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	>15	UNE-EN 12730
Resistance to root penetration	No pasa	UNE-EN 13948
Longitudinal tensile strength (N / 5cm)	700 ± 200	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	450 ± 150	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)	>900	UNE-EN 12691
Resistance to impact, B (mm)	>900	-
Joint Strength: Welding Shear	450 ±150	UNE-EN 12317-1
Hazardous substances	PND	-
Resistance to root penetration	No pasa	UNE-EN 13948

Addtitional Technical Data

Concept	Value	Standard
Density (kg/m³)	1200	-
Adhesion of granules (%)	NPD	UNE-EN 12039
Creep resistance at high temperatures (ºC)	>100	UN-EN 1110
Durabilidad UV; calor y agua: Flexibilidad a baja temperatura (ºC)	NPD	-
Durabilidad UV; calor y agua: Fluencia a alta temperatura (ºC)	NPD	-

Environmental Information

Concept	Value	Standard
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’.
- Complies with CE marking requirements.
- DIT 567R/16 "ESTERDAN - SELF DAN - POLYDAN UNDERGROUND STRUCTURES".

Scope

- Tanking membrane.
- Two-ply self-protected membrane underlay mechanically fastened to the deck roof.

Advantages & Benefits

- High movement capability.
- Helps to increase the durability of the sheet.
- It retains its properties better over time.
- Good anti-piercing protection from mechanical damage.
- Suitable for waterproofing buried structures (basement walls).
- High tensile strength and high elongation at break.
- High resistance to tearing.
- High resistance to static and dynamic piercing.
- Rot-proof.
- The membrane can be combined, in two-ply membranes, with a reinforced membrane with glass fibre felt, which provides the waterproofing system with dimensional stability; highly important in bonded systems.
- The sheet, being made of a bitumen mastic modified with SBS-type elastomeric polymers, substantially improves other bituminous mastics, providing much 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.
- Improves the performance of mechanically fastened sheets by providing a high wind suction resistance value and optimising the density of fastenings.
- Very stable in the long term.

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.
In the case of mortar or concrete substrates, first apply a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho).
In the case of wooden substrates, an Impridán 100, Maxdán or Maxdán Caucho bituminous primer shall be applied beforehand.
In case the substrate is a thermal insulation board, the compatibility between both materials shall be verified.Application of the sheet:

- The adhesion to the substrate of the sheet is carried out by removing the protective film and pressing outwards to avoid the formation of air bubbles.
- The overlaps must be adhered, and shall be 8 cm in both longitudinal and transverse directions.

- To join the transversal overlap at the ends of the rolls, it is necessary to previously heat the transversal edge of the lower sheet in a strip of 8-10 cm, eliminating the protective polyethylene film in the bituminous mass and then adhere the end of the following piece.

Waterproofing of walls:

- Previously apply a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho).
- The rolls are placed in a vertical position.
- The adhesion of the film to the substrate is done by removing the protective film and pressing outwards to avoid the formation of air bubbles.
- The overlaps must be adhered and should be 8 cm in both longitudinal and transverse directions.
- For easier installation, it is recommended to cut the rolls into smaller, more manageable dimensions.
- To join the transverse overlap at the ends of the rolls, it is necessary to heat the transverse edge of the lower sheet in a strip of 8-10 cm beforehand, removing the protective polyethylene film in the bituminous mass and then adhere the end of the next piece.

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) shall be applied to the entire surface to be welded beforehand.
- Not suitable on flat roofs as permanent waterproofing layer.
- In case the substrate is a thermal insulation board, the compatibility between the two materials shall be verified.
- 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 membraneduring installation must not exceed 45°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.
- To join the transverse overlap at the ends of the rolls, it is necessary to preheat the transverse edge of the bottom sheet in a strip of 8-10 cm, remove the protective polyethylene film in the bituminous mass and then adhere the end of the next piece.
- 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 geotextile separating layer (Danofelt PY 200) shall be used between the sheet and the extruded polystyrene insulation panels, so that each product expands independently.
- 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 +10ºC.
- 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 50ºC.
- 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, Knowlegde 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**