

POLYDAN PRO 50/GP GREEN GARDEN

High-performance self-protected SBS elastomeric bitumen waterproofing membrane type LBM-50/G-FP R. Anti-Root, especially for green roofs.



BBA 10/4787 (2)

Bituminous sheet with a self-protected surface type LBM-50/G-FP-R, with anti-root treatment. Composed of a reinforced polyester felt reinforcement, coated on both sides with a high-performance elastomer-modified bitumen mastic (SBS), finished on the outside with green slate granules as a protective material. On its inner side, as an anti-adherent material, it incorporates a plastic finishing film.

Scope

- Waterproofing sheet on the outside of walls.
- Multilayer membrane top sheet for roof waterproofing with mineral self-protection.
- Top sheet in two-layer membranes for waterproofing of roofs with heavy bonded, unbonded or floating protection.
- Single-layer membrane for waterproofing intensive and extensive green roofs.
- Single-layer membrane for waterproofing roofs with heavy bonded, unbonded or floating protection.

Advantages & Benefits

- High static and dynamic piercing resistance.
- The mineral finish gives the sheet UV resistance.
- High resistance to root penetration.
- High tensile strength and high elongation at break.
- High resistance to tearing.
- Total impermeability to water and water vapour.
- Rot-proof.
- Very stable in the long term.
- Allows for adaptation to any type of geometry.

Support

- Roofs with heavy bonded, unbonded or floating and self-protected bonded protection.
- Concrete supports

- Mortar supports

Instruction for Use

Substrate preparation: The base support surface must be durable, uniform, smooth, be clean, dry and free from foreign bodies. As a separating layer or protective polyester geotextiles are used, type Danofelt PY 300 or higher.

Placement waterproofing layer: DANOPOL+ HS 1.2 DARK GREY ANTHRACITE Waterproofing membrane can be welded by hot air or by chemical THF bonding (Tetrahydrofuran). During the installation, the membrane's serigraphed face must remain in sight.

Indications and Important Recommendations

- In case of new construction and renovation, possible chemical incompatibilities with APP plastomer-modified bitumen sheets shall be taken into account.
- In case of renovation, chemical incompatibilities with old waterproofing consisting of flexible PVC sheets, 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 (geotextiles, mortar layer, polyethylene film, etc).
- 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.
- In the case of large trees and/or large root tissue, the waterproofing shall be protected (horizontal section and junctions with vertical walls) with a layer of reinforced concrete.
- 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.
- Self-protected sheets in coloured mineral or ceramic granules may have different colour shades depending on the different production batches.
- Self-protected sheets are exposed sheets, so care must be taken when installing them.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".
- There is no chemical incompatibility between the Danosa range of oxyasphalt, SBS elastomeric bitumen and plastomeric bitumen sheets.
- The planting of palms, palm trees, cypresses and bamboos is not recommended.
- For any questions about prohibited and/or non-recommended plants, please consult our Technical Department.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- A separating layer (DANOFELT or DANODREN) shall be laid before laying the heavy protection (paving, gravel, topsoil, etc).
- Special attention must be paid to the execution of the singular points, such as parapets (meetings with vertical and emergent elements), drains, expansion joints, etc.
- 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.

Maintenance Recommendations

- Maintenance requirements for Danosa Roofing Products The following maintenance checks must be adhered to: - A general examination on the condition of the waterproofing and surrounding roof components. - An inspection of all functional roofing elements including skylights, outlets, upstands,

penetrations and any other visible roofing components. - Clean outlets, drains, gutters and remove any debris from the roof. - Periodic removal of mildew, moss, herbs or any other kind of vegetation that has been accumulated on the waterproofing. - Periodic removal of possible sediments accumulated on the deck (silt, sledges, slate granules, etc) by occasional water accumulation. - Periodic removal of debris and small objects that may have accumulated on the roof. - Ensure surrounding structural elements are sound such as eaves, flashings, slate tiles and brickwork. - Ensure that the waterproofing is in good condition and there are no blisters, damage or separation. - Review the condition of the waterproofing (adherence to upstands, condition of overlaps, visual appearance, etc) and repair the defects observed. These operations must be carried out twice a year, preferably at the beginning of spring or autumn and must be increased in case of decks or valleys with zero falls. It is also necessary to perform additional maintenance depending on the type of roof, location and proximity of roofs to areas with trees or in areas with high levels of pollution. More details on the document Maintenance and repair recommendations for flat roofs waterproofed with modified bitumen sheets

Warning

- Do not apply on icy or wet surfaces.

Handling, storage and preservation

- Before moving the pallet, the condition of the shrink-wrap is checked in order to reinforce it if necessary.
- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product will be stored in an upright position.
- Handle with a crane with a protective net.
- Pallets shall not be stacked on top of each other.

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**