

TECHNICAL DATA SHEET

EUROSELF PE PLUS

EUROSELF PE PLUS is a self-adhesive bituminous waterproofing sheet. Composed of a self-adhesive SBS modified bitumen with an upper surface finish of a cross laminated polyethylene film (HDPE) used as reinforcement and a lower surface finish of releasable polyethylene film.

It is used for the waterproofing of underground walls. **EUROSELF PE PLUS** provides Crack Bridging properties for covering concrete cracks resulting from ground movements and lateral precisions.

TECHNICAL DATA	VALUE	UNIT	STANDARD
Reaction to fire	F	-	UNE-EN 11925-2; UNE-EN 13501-1
Watertightness (>60 KPa)	Pass	-	UNE-EN 1928
Longitudinal tensile strength	220 ± 80	N/5cm	UNE-EN 12311-1
Transversal tensile strength	220 ± 80	N/5cm	UNE-EN 12311-1
Longitudinal elongation at break	> 300%	%	UNE-EN 12311-1
Transversal elongation at break	> 300%	%	UNE-EN 12311-1
Resistance to static loading (B)	20	Kg	UNE-EN 12730
Resistance to impact (flexible: EPS)	900	mm	UNE-EN 12691
Longitudinal resistance to tearing (nail shank)	150 ± 50	N	UNE-EN 12310-1
Transversal resistance to tearing (nail shank)	150 ± 50	N	UNE-EN 12310-1
Joint strength: shear resistance	220 ± 80	N/5cm	UNE-EN 12317-1
Puncture resistance	235 ± 90	N	ASTM E154
Resistance to hydrostatic head	60	m of water	ASTM D5385
Flexibility at low temperature	< -15	°C	UNE-EN 1109
Humidity resistance factor	115000	-	EN 1931
Humidity flow density coefficient	2.56, Exp-9	Kg/(m ² .s)	EN 1931
Bond strength (to concrete)	0.5	N/mm ²	UNE-EN 13596
Crack bridging ability (5 mm)	-5	°C	UNE-EN 14224
Microbiological resistance (30 weeks)	Pass	-	UNE-EN 12225
Resistance to oxidation 85 °C 90 days	Pass	-	UNE-EN 14575

Pass = Positive or correct

ADDITIONAL TECHNICAL DATA

ADDITIONAL DATA	VALUE	UNIT	STA
Nominal thickness	1.5	mm	-
Flow resistance at elevated temperature	>70	°C	UN-
Dimensional stability at elevated temperature (longitudinal)	< 0.5	%	UNE
Dimensional stability at elevated temperature (transversal)	< 0.5	%	UNE

Membranes thickness tolerance: = -0,1 mm.

STANDARDS AND CERTIFICATION

Meets the requirements of the UNE EN 13970 norm.

Meets the requirements of the UNE EN 13969 norm.

SCOPE

Product used for the waterproofing of underground walls. **EUROSELF PE PLUS** provides Crack Bridging properties for covering concrete cracks due to structural movements of the building.

PRESENTATION

PRESENTATION	VALUE	UNIT
Length	20	m
Width	1	m
Roll surface	20	m ²
Rolls per pallet	25	rolls
Product Code	192235	-

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 bituminous primer prior to installation of **EUROSELF 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 lap over "down" slope laps.
- Begin membrane application by unrolling the roll of **EUROSELF 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 **EUROSELF PE PLUS**, and cut the piece to the desired shape and size.
- Place the pieces of **EUROSELF 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, **EUROSELF PE PLUS** must be protected by a protection layer as soon as possible.
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ADVANTAGES AND BENEFITS

ADVANTAGES

- Controlled thickness in factory ensuring constant non-variable site application
- Certified Waterproof to water and vapour barrier system
- Easy and Fast Application
- Application at room temperature
- Prestige product from European Manufacturer following European and American Certifications

BENEFITS

- Preserve its properties in long term due to SBS mass
- **Crack Bridging properties due to >300% compound elongation performance**
- Total flexibility of the material, and perfect accommodation to the support
- Perfect adherence to the support
- Excellent mechanical properties in both directions due to cross laminated polyethylene film (HDPE) finishing

INDICATIONS AND IMPORTANT RECOMMENDATIONS

- **EUROSELF PE PLUS** should not be applied when temperature is below +10°.
- Must be stored in a dry place protected from rain, sun, heat and cold temperatures.
- Sun exposure of the product may difficult the removal of the polyethylene non-stick film. In service maximum temperature should be below 50°C.
- **EUROSELF PE PLUS** should be kept exposed to the sun for the minimum possible time in order to prevent from U.V. rays damage. It is recommended to cover **EUROSELF PE PLUS** within few hours after application.

MAINTENANCE RECOMMENDATIONS

Maintenance requirement for Hoylake 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 accumulation 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.

HANDLING, STORAGE AND CONSERVATION

- This product is not toxic or flammable.
- It must be stored in a dry place and protected from rain, sun, heat and low temperatures (below 40°C).
- It must be stored upright.
- Don't store two pallets high.
- You must use the oldest batch of products first.
- No waterproofing works should be performed when weather conditions are unsuitable. These include snow or ice on the roof, heavy rain, moisture, strong winds.
- In all cases, the rules of health and safety at work and the rules of good construction practice should be considered.
- To store in racking at height the shelves must have three stringers or beams under the wooden pallet.
- Before handling the pallet you must check the status of the pallet and reinforce if necessary.
- If you are using a crane for handling purposes, you must ensure protection for others as stated on our packaging instructions.

WARNING

The information that appears in the following document makes reference to the uses and utilities of Hoylake's products and systems, and it is based on the knowledge that have been learnt until present, by Hoylake. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Hoylake is not responsible for unsuitable uses of the products neither any other fact, such as meteorological facts. So Hoylake is just responsible for the quality related to the provided products. Hoylake reserves the right to carry out modifications without previous notice.