



# EUCOPROOF SA

**HDPE SURFACED BITUMINOUS WATERPROOFING MEMBRANE** **EUCLID CHEMICAL**

WATERPROOFING

## DESCRIPTION

**EUCOPROOF SA** is a self adhesive polymer modified bituminous, waterproofing sheet membrane laminated onto a tough HDPE film one side and silicone release film on the other. **EUCOPROOF SA** conforms to the requirements of BS 8102.

## PRIMARY APPLICATIONS

**EUCOPROOF SA** is used as waterproofing or damp proofing membrane intended for concrete protection. It may be used for horizontal and vertical application for tanking below ground structures, subways and retaining walls.

## TECHNICAL INFORMATION

PROPERTIES	VALUES		TEST STANDARDS
Thickness, [mm]	1.5	2.0	DIN EN 1849-1
Mass per unit area [kg/m <sup>2</sup> ]	1.6	2.1	DIN EN 1849-1
Top surfacing	HDPE film		-
Softening point (R&B) [°C]	> 105		ASTM D 36
Tensile strength [Film] [N/mm <sup>2</sup> ]	Long 20 Trans 20		ASTM D 882
Elongation @ break [Film] [N/mm <sup>2</sup> ]	Long 300 Trans 300		ASTM D 882
Tear strength [Film] [N/mm <sup>2</sup> ]	Long 120 Trans 110		ASTM D 1004
Adhesion strength [N/mm <sup>2</sup> ] Primed substrate: Self:	1.8 2.2		ASTM D 1000
Puncture resistance [N]	> 220		ASTM E 154
Hydrostatic pressure @ 5 bar (50m)	No leakage		BSEN12390 (Part 8)
Water absorption [Film] [%] @ 24hrs	0.14		ASTM D 570
Chemical resistance [pH]	2.5 - 11.5		ASTM D 543
Low temperature flexibility [°C]	≤ - 15		ASTM D 1970
Crack bridging ability [mm]	> 1		ASTM C 836
Application temperature	+10°C to +55°C		-
Service temperature	+4°C to +80°C		-

All values given are subject to 5 - 10% tolerance

## PACKAGING

### **EUCOPROOF SA 1.5mm**

1m X 10m roll, weight 16kg

1m X 20m roll, weight 32kg

### **EUCOPROOF SA 2.0mm**

1m X 10m roll, weight 21kg

1m X 20m roll, weight 31kg

EUCOPROOF SA

## SHELF LIFE

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**EUCOPROOF SA** must be stored in a shaded area on wooden pallets, neatly covered by a thick fabric and tied securely in a manner that will minimise exposure to sunlight and UV. The membrane should be protected from all source of heat. The shelf life is 12 months if stored as per recommendation. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

## DIRECTIONS FOR USE

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The application temperature should be between 4°C to 45°C. Application procedure may vary slightly depending upon site condition. The general recommended guidelines for the application of the self adhesive waterproofing system is as follows:

**Surface Preparation:** The surface shall be cleaned thoroughly of all contaminants such as dust, traces of curing compounds, oil and grease. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable **EUCOCRETE** concrete repair mortar.

**Priming:** Apply **EUCOPRIME** (solvent based primer) @ 4 – 6 m<sup>2</sup>/litre to a clean, smooth and dry surface by brush, roller or spray. Allow the primer to dry prior to the application of the membrane. As the viscosity is low, it easily penetrates into the concrete pores which promotes the adhesion between the membrane and the concrete surface. In addition, the primer also acts as a binder for the dust which gets accumulated on the surface even after cleaning.

**Alignment:** Start the installation of all membrane plies from the low point or drain, so that 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 **EUCOPROOF SA** membrane and aligning the side laps.

**Application:** Peel of the release film from the self adhesive side and start unrolling the membrane, pressing in to the surface. Smooth the membrane from the centre to the edges with a wooden press in order to remove any entrapped air. Furthermore, an iron roller shall be used for rolling on top of the applied membrane to ensure a proper and strong adhesion of the bitumen compound with the base surface. Side overlaps shall be a minimum of 50mm on the selvedge and end overlaps 100mm.

**Protection:** The membrane shall be protected from damage due to ongoing site activities or from aggregates during backfilling by a tough, weather, wrap and rot proof asphaltic protection board. Alternatively, on horizontal areas the membrane can also be protected by laying a cement sand screed (50mm).

## HANDLING

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**EUCOPROOF SA** membranes are packed in loose corrugated boxes to avoid any damage during transit or during storage at sites. Care should be taken when storing the membranes on site and should not be kept within close proximity of any sharp or protruding edges to avoid puncturing or damaging the membrane.

## HEALTH & SAFETY

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**EUCOPROOF SA** contains a tacky bitumen compound which can stick to human skin during application. Bitumen stain can be removed by using a cloth dipped in a suitable cleaner.

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