



EUCOPROOF 4000 TA

TORCH APPLIED BITUMINOUS WATERPROOFING MEMBRANE

EUCLID CHEMICAL

WATERPROOFING

DESCRIPTION

EUCOPROOF 4000 TA is a plastomeric waterproofing membrane, manufactured from mixture of bitumen and selected APP (Atactic Poly Propylene) polymers blended together to obtain excellent heat & UV resistance and waterproofing properties. Upper surface finish is available in PE film or fine sanded finish.

PRIMARY APPLICATIONS

EUCOPROOF 4000 TA can be used as waterproofing membrane on:

- Flat or pitched roof
- Foundations and basements
- Terraces, balconies and patios
- Bridge and cut and cover tunnels
- Concrete foundation and footings

FEATURES/BENEFITS

- Uniform thickness of 4mm
- Good heat resistance
- Easily installed using flame torch methods
- High puncture and fatigue resistance
- Good chemical resistance
- Water and vapour proof
- High tensile and tear strengths

TECHNICAL INFORMATION

PROPERTIES	VALUES		TEST STANDARDS
	EUCOPROOF 4000 TA (PE FILM)	EUCOPROOF 4000 TA (SANDED)	
Thickness, [mm]	4.0		DIN EN 1849-1
Mass per unit area [kg/m ²]	4.8 - 5.0		DIN EN 1849-1
Top surfacing	PE Foil	Fine Sand	-
Lower Surface Finish	PE Film		-
Length [m]	10.0		DIN EN 1848-1
Width [m]	1.0		DIN EN 1848-1
Straightness [mm] Max	20mm X 10m		DIN EN 1848-1
Reinforcement [gm/m ²]	200	110	DIN EN 29073-1
Tensile Strength [L/T] [N/5cm]	900/700	400/300	DIN EN 12311-1
Elongation at break [L/T] [%]	40/45	30/35	DIN EN 12311-1
Tear Resistance [L/T][N]	200/200 400/350	130/130 250/200	DIN 12310-1 ASTM D 5147
Impact Resistance [mm]	1000	700	DIN EN 12691
Water Absorption [%]	0.20		ASTM D 5147
Hydrostatic Pressure Resistance @ 5 Bar [50mm]	No Leakage		BS EN 12390 (8)
Reaction to Fire	Class E		DIN EN 13501-1
Water Vapour Transmission [g/m ² /24hrs]	0.01		ASTM E 96

All values given are subject to 5 - 10% tolerance

EUCOPROOF 4000 TA

PACKAGING/YIELD

Dimension of the roll 1 x 10 m

SHELF LIFE

EUCOPROOF 3000 TA 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

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

Priming: Apply **EUCOPRIME** (solvent based primer) @ 4 – 6 m²/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.

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 4000 TA** membrane and aligning the side laps.

Application: Ensure that the surface to be waterproofed has been primed. Place the torchable side of the sheet down. Torch apply on layer of **EUCOPROOF 4000 TA**, making sure the laps of 100 mm on the side, and 150 mm at the ends, are maintained. End joints must be staggered-the overlap of four corners is not permissible. The flame heat must be applied evenly and within the correct temperature range. A bead of liquid bitumen must be visible on the underside of the roll.

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

- In multi layer applications take care to prevent damage to the existing layer due to over torching.
- A slip sheet should be used on the membrane when applying a solid topping over the top
- An approved membrane protection board should be installed over the membrane prior to any backfilling.
- Not root resistant.

HEALTH & SAFETY

EUCOPROOF 4000 TA 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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