



Viking Butylclad Butyl Rubber Membrane

Product Information

Description

Elastomeric Rubber Roofing and Waterproofing Membrane.

Viking Butylclad Membranes are manufactured from an EPDM Butyl rubber polymer blend. Butyl rubber is a copolymer of isobutylene with small amounts of isoprene, two gases derived from petroleum distillation. The Butyl rubber molecule has a highly saturated structure, and therefore is resistant to heat ageing processes, sunlight and ozone and has exceptionally high resistance to diffusion by gases and liquids (other than mineral oils and solvents). Butyl was commercialised in 1937, it is also used in tyre inner tubes because of its resistance to gas diffusion.

EPDM is an inert polymer made by co-polymerising Ethylene and Propylene with small amounts of another polymer.

EPDM's excellent weathering properties provide Skellerup Butylclad with increased durability compared to 100% Butyl membranes.

Applications

Industrial, commercial and residential flat roofs and gutters. Irregular angles, curves and contours of any scale architecture.

Finishes and Colours

Matt finish both sides. Black and grey available ex stock.

Dimensions

Thickness (mm)	Roll Width (mm)	Roll Length (m)
1.0	900	25
1.0	1350	25
1.5	1350	20

Life Expectancy

Tropical areas: Product in use in excess of 20 years and still performing satisfactorily.

Temperate zones: Earliest applications still good after 40 years.

Viking Butylclad Physical Properties

Physical Property	Test Method	Spec.	Typical
Hardness, Shore A	ASTM D 2240	68 +/- 5	Pass
Tensile Strength, MPa	ASTM D 412	8.3 min	9.2
Elongation, Ultimate, %	ASTM D 412	300 min	441
Resistance to Heat Ageing Properties after 166 hours @ 116°C (240F)	ASTM D 573		
Tensile Strength, psi (MPa)	ASTM D 412	6.2 min	8.6
Elongation, Ultimate, %	ASTM D 412	210 min	311
Ozone Resistance Condition after exposure to 50 ppm Ozone in air for 7 days @ 40°C Specimen is at 25% strain	ASTM D 1149	No Cracks	No Cracks
Resistance to Water Absorption After 166 hours in immersion @ 70°C Change in mass, %	ASTM D 471	4 max	3.2
Water Vapour Permeance At 23°C ± 2°C, 45% RH, perms	ASTM E 96	0.06 max	0.02
Specific Gravity, typical	-----		1.2 Black 1.3 Colour
Thermal Conductivity, typical kcal/hr/m/°C	-----		0.27
Temperature Range remains flexible from	-----		-50°C to +110°C

Chemical Properties

Chemical Resistance.

Unaffected by water (distilled, potable, sea).

Unaffected by soil chemicals (soil acids, lime, iron derivatives, silicate derivatives).

Unaffected by building materials (quick lime, slaked lime, cement).

Unaffected by decomposition materials (albuminous products, sulphide etc).

Unaffected by fertiliser solutions (25% nitrates, phosphates, sulphates).

Unaffected by bitumen (avoid substrates with bitumen content, because the bitumen absorbs adhesive solvents and these can cause subsequent bubbling of the Butylclad sheets).

Petroleum products (petrol, diesel, white spirits, fuel oil, lubricating oil, grease) will permanently weaken Butyl sheeting.