

HYPERLINER®

HYPERLINER® is a high quality membrane, blue in colour, having a proprietary composition based on a stabilized Ethylene Vinyl Acetate (EVA) co-polymer.

Its unique extreme elasticity, flexibility and toughness properties enable it to be used in a variety of lining applications where it will not be exposed to direct sunlight. These applications typically include drinking water reservoirs, enclosed water/firewater tanks, thickener tanks and tunnel liners. HYPERLINER can also be supplied with a white laminated signal layer for specific applications.



Tested Property	Unit	Test Method	Values (*)	
			1500	2000
Physical Characteristics				
Thickness (±10%)	mm	ASTM D 5199	1.5	2.0
Mass Per Unit Area	g / m ²	SANS 1526 – 2015	1425	1900
Density	g / cm ³	ASTM D792	0.95	
Moisture Vapour	%	Manufacturer Test	0.06	
Thermal Expansion Coefficient (0 – 100°C)	cm / cm / °C	ASTM D696	2.2 x 10 ⁻⁴	
Dimensional Stability (Change after 15min @ 100°C)	%	ASTM D 1204	< 5	
Water Absorption (After 2 weeks @ 50°C)	%	ASTM D 471	0.15	
Melt Index	g / 10min	ASTM D 1238 (190°C / 2.16 kg)	2.7	
Volatile Loss (Max)	%	ASTM D 1203 (Method A)	0.2	
Mechanical Properties				
Strength at Break	MPa	ASTM D 6693 Type IV	13	
Elongation at Break	%	ASTM D 6693 Type IV	700	
Puncture Resistance	N	ASTM D 4833	60	80
Tear Strength – Initiation	N	ASTM D 1004	54	56
Shipping Specifications				
Roll Dimensions:				
- Length	mm	---	140	105
- Width	mm	---	4000	4000
- Diameter	mm	---	530	530
Roll Weight	Kg	---	820	

*Please refer to the next page for further technical information on the material.

The above information is provided for reference purposes only and shall not be construed as a warranty or guarantee. The Manufacturer and Supplier assumes no liability in connection with the use of the information. Specifications are subject to change without notice. All trademarks are registered trademarks of the supplier in the Republic of South Africa.



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TECHNICAL INFORMATION BULLITIN

Chemical Resistance

HYPERLINER® is resistant to a wide range of chemicals including acids, alkalis, salts, alcohols, amines, detergents, natural fats and oils. Its use is not recommended for mineral fuels and oils without prior testing.

Combinations of chemicals of different concentrations and temperatures can have different aggressive characteristics. It is therefore recommended that immersion tests always be carried out on particular chemical solutions in order to confirm that HYPERLINER® will not be affected. AQUATAN provides such tests on a no obligation basis.

*A Chemical Resistance Chart Is Available On Request

HYPERLINER® is supplied in seam free widths of up to 4.0m. It is seamed using an electrically heated **Double Wedge** and **Extrusion Fusion** welding system.

The Double Wedge seaming equipment produces two fully integrated and homogenous seams with a central channel which can be pressurized for non-destructive testing purposes.

The Extrusion Fusion welding equipment is based on a continuous extrusion fusion welding system which applies extrudate along the overlap under specific and simultaneous heat and dynamic conditions. This system provides a totally integrated and homogeneous seam.

Sealing systems for fixing to protruding pipes and concrete structures have been developed and these are used for connections to inlets, outlets, weirs etc.

Typical Applications

HYPERLINER® is ideal for a variety of lining applications where the material is not exposed to sunlight. For example; concrete tank linings, foundation linings, canals, tunnels, closed reservoirs, firewater - and thickener tanks.

Availability

HYPERLINER® is available in thicknesses of 1.5mm and 2.0mm which is supplied in seam-free widths of 4m wide with roll lengths respectively up to 140m and 105m to suit application and site handling requirements. All rolls are supplied with suitable cores and outer protection to prevent damage during transportation.

Short Form Specification

“The Geomembrane shall consist of a polyethylene ethyl vinyl acetate stabilized co-polymer (HYPERLINER) in seam-free rolls 4m wide and a thickness ofmm. The lining material shall be seamed, by an Approved Installation Contractor (AIC) as certified by the IAGI, on site using both a proven double wedge and a continuous extrusion fusion welding system to ensure joints, which when tested shall fail neither in peel nor shear test modes. Anchoring and sealing to pipes and concrete structures shall be carried out according to the Lining Contractor’s approved system. The Lining Contractor shall approve the surface of the structure to be lined which should be smooth and firm, before laying the membrane”.

(Approved Lining Contractor- Aquatan (Pty) Ltd)

The information and recommendations contained in this bulletin are based on data which we believe is reliable but all such information and recommendations are given without guarantee or warranty. Please contact us for further up to date information.



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