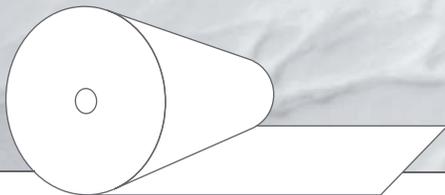


WHITE REFLECTIVE LINER

GET OUT OF THE DARK



SOLMAX

Covering the world. *Protecting the earth.*

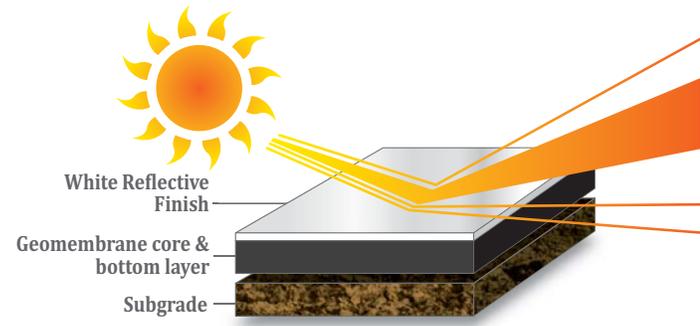
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Solmax White Reflective Liner is a 3 layer co-extruded geomembrane. The product core and bottom layer ($\approx 97\%$ of thickness), are made of the same raw materials and additives as traditional black geomembranes. By modifying the top layer ($\approx 3\%$ of thickness) with the addition of a pure white pigment and UV additives, Solmax is able to produce the first cost effective white reflective liner which offers substantial technical benefits to various containment applications.



COST CONTROL

While white reflective geomembranes have been produced and utilized in some industries for nearly 20 years, they have always been promoted and sold as a premium product with a premium cost. Since the white reflective layer is only a finish ($\approx 3\%$ of thickness) and due to technological advancements, a high production quality control and a larger volume demand, Solmax is now able to produce this high performance material with no additional costs to traditional black geomembranes, for 60 mils geomembranes and thicker. Therefore, Solmax is passing along this savings to its customers. In fact, since white reflective liners offer substantial technical benefits and now cost the same as black liners; these high end products are now **Solmax's Standard Products**. This means that if not specified otherwise, for 60 mils and above orders of HDPE or LLDPE geomembranes, Solmax will produce and ship white reflective liners. The cost for these products will be the same market price as competing black liners. Availability and lead time will also be standard for this high end product.

GET OUT OF THE DARK

SOLMAX'S WHITE REFLECTIVE LINER IS A STANDARD PRODUCT!



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TECHNICAL BENEFITS

Having 97% of the liner with same constituents as traditional HDPE and LLDPE geomembranes, white reflective liners offer the same chemical, mechanical and durability advantages as these proven containment barriers. However, due to the white reflective finish of Solmax's liners, sun light is reflected and not absorbed like it is for other HDPE and LLDPE geomembranes. Therefore, as seen in the table below, white reflective liners will be much cooler than black liners.

SURFACE

Ambient Air Temperature, AAT (°C)	HDPE GMB Liner	HDPE GMB Liner Temperature, LT (°C)	Δ Temperature (°C) from Smooth Black HDPE GMB Liner
30	Smooth Black	67	-
	Textured Black	64	-3
	Grey/White	49	-18
	White	43	-24
18	Smooth Black	25	-
	White	17	-8

(Data after Cadwallader, Cranston and Peggs 1993)

HDPE GMB Liner	C (X 10 ⁻⁵ / °C)	ΔT (°C)	L (mm)	ΔL (mm)	δ ΔL
Black	15	67 - 25 = 42	100 x 10 ³	630 mm	-
White	15	43 - 17 = 26	100 x 10 ³	390 mm	-240 mm

38% Reduction for δ ΔL!... Resulting in potential significant reduction of wrinkles!

The reduced liner temperature will offer substantial technical benefits that will improve the containment barrier and liner durability. These advantages are:

■ Improved imperviousness of the active barrier due to:

- Reduced expansion / contraction = Increased intimate contact with impervious sub base
- Reduced number of wrinkles
- Reduced length and interconnection of the wrinkles

■ Easier to install

- Visual aid for grinding (extrusion welding)
- Less wrinkles makes it easier to weld
- Visual identification of scratches and holes
- Reduced trampoline effect

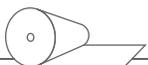
■ Increased service life when exposed due to cooler service temperature

■ Increased proper backfilling period due to:

- Reduced number of wrinkles
- Reduced length and interconnection of the wrinkles

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WHITE REFLECTIVE LINER ARE BETTER THAN BLACK GEOMEMBRANES.



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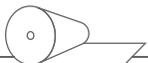
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