



# CoolGuard<sup>TM</sup> ultra

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**The Best Cover for a Cool Pool**

500 Micron



[www.geobubble.co.uk](http://www.geobubble.co.uk)



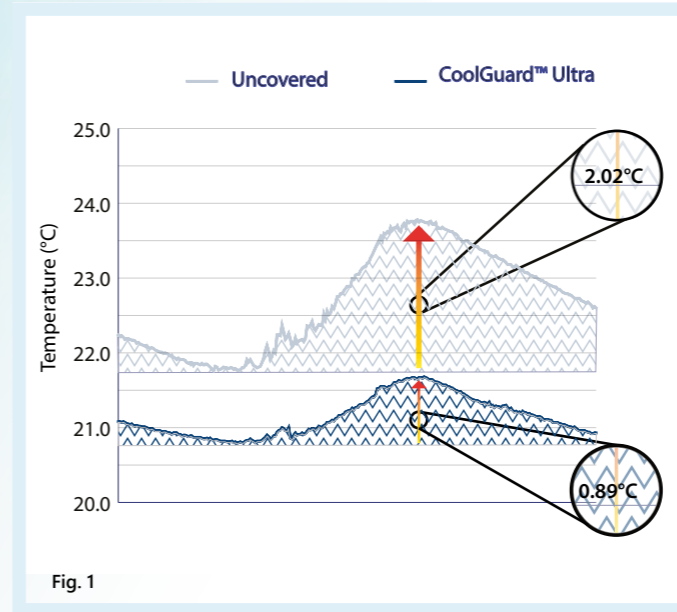
### Key Benefits:

- Minimise daily solar gains by 55%
- Maintain a 10% cooler pool
- Reduce energy consumption by up to 60%
- Reduce chemical consumption by up to 60%
- Eliminate evaporation by 98%
- Reduce debris contamination
- Save money and reduce the environmental impact of your pool
- 8+ years expected lifespan
- With GeoBubble™ Technology
- Available with reinforcing weave
- Pay back the cost of a cover within 1 year



# CoolGuard™ Ultra minimises daily solar gains by up to 55%

CoolGuard™ Ultra is designed to keep pool water in hotter climates cooler for a more refreshing swim. Its highly reflective Glacial blue top surface mitigates against solar gains and the insulating material helps to keep the water at a cooler, more refreshing temperature.



In the summer of 2022, testing was conducted on outdoor test pools, located at our state-of-the-art testing facility in South East England. The scope of these tests was to determine the benefits of covering an outdoor pool with CoolGuard™ Ultra material with GeoBubble™ technology. In order to achieve this one test pool was fitted with a CoolGuard™ Ultra cover fabricated in house, and another left uncovered to act as a control.

The graph in Fig. 1 demonstrates CoolGuard™ Ultra's ability to minimise daily solar gains when compared to an uncovered pool, while also preserving the water resource through evaporation control. As can be seen the covered pool is cooler overall and provides a 55% reduction in peak daily solar gains.



#### Reflect heat

CoolGuard™ Ultra's increased reflectivity provides a dramatic improvement to the regulation of the pool's temperature. Its Glacial Blue colour brings a 25% improvement in reflectivity across the visible and IR spectrum, providing a barrier to reduce solar gains, ensuring a refreshing swimming temperature.



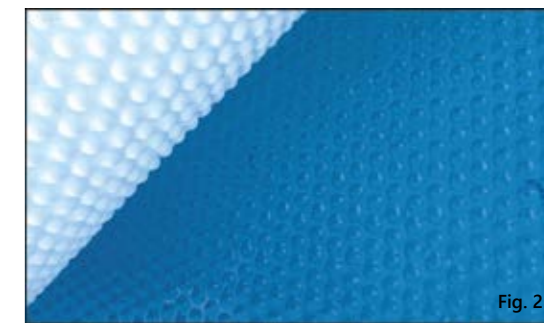
#### Insulates to prevent heat transfer

The unique profile of the GeoBubble™ technology air cells provides both buoyancy and an insulative air gap to control heat transfer enabling the material to manage the pool environment and keep the pool at the desired temperature.



#### Prevents evaporation

The material provides a barrier to evaporation, giving the pool the ability to preserve water and reduce heat loss through evaporative cooling. Evaporative losses have the largest impact in maintaining a pool's temperature, responsible for 70% of the overall heat loss from an uncovered pool. Plastipack materials are tested to prevent over 98% of evaporative losses.



The above image (Fig. 2) further demonstrates CoolGuard™ Ultra's ability to keep pool water cool.

In the particularly cold winter of 2019, the pool covered with CoolGuard™ Ultra was the only one of our test pools to ice over.

***"With our desert climate and heat it has surpassed any cover I have had before in all regards."***

Fred Busch,  
Palm Springs, California, USA



## Specification Sheet

<b>Polyethylene Film</b>	Dual-Extruded		
<b>UV Protection</b>	140 kLys/yr 0.9% Additive 180 kLys/yr 1.2% Additive		
<b>Colour</b>	Reflective Glacial Blue		
<b>Thermal Properties</b>	Vicat Softening Point (1kg) 93°C		
<b>Cold Crack Temperature</b>	-25°C		
<b>500 microns thickness</b>	Bubble Film = 350 micron +/- 10%		
<b>*758 microns thickness</b>	Back film = 150 micron +/- 10%		
<b>Weight per m<sup>2</sup></b>	460gms +/- 10%		
	*637gms +/- 10%		
<b>Overall Bubble Width</b>	2000mm / 2500mm +/- 1%		
<b>Welding Edges</b>	30mm +/- 10%		
<b>Overall Width</b>	2060mm / 2560mm +/- 10%		
<b>Roll Diameter</b>	0.80m +/- 1%		
<b>Roll Length</b>	102m +/- 2%		
<b>Est. Quantity for 120m<sup>3</sup> truck</b>	2.5m = 14,535m <sup>2</sup> = 57 rolls 2m = 15,912m <sup>2</sup> = 78 rolls		
<b>Est. Quantity Containers</b>	20ft = 4,692m <sup>2</sup> = 23 rolls 40ft = 11,220m <sup>2</sup> = 55 rolls		
<b>Packaging</b>	Packaged in Polyethylene bags		
<b>Core Diameters</b>	Internal 76mm/External 80mm		
<b>Identification</b>	Batch Identification by Q.A. slip and label showing Length/Grade		
<b>Warranty</b>	8 year pro rata warranty		
<b>GEOBUBBLE™ TECHNOLOGY</b>			
<b>Bubble Width x Length</b>	15x30mm		
<b>Bubble Height</b>	5.5mm		
<b>No. of bubble per m<sup>2</sup></b>	1943		
<b>*WOVEN TOP SHEET</b>			
	<b>Material</b>	<b>Tensile Strength (N/m)</b>	<b>Tear Strength (N)</b>
<b>Warp</b>	HDPE	50	160
<b>Weft</b>	HDPE	50	160

Company information:  
[www.plastipack.co.uk](http://www.plastipack.co.uk)

Product information:  
[www.geobubble.co.uk](http://www.geobubble.co.uk)

Water storage:  
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