The Best Cover for a Cool Pool

500 Micron

GeoBubble™

www.geobubble.co.uk

CoolGuard™ ultra

© Plastipack Ltd

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

GeoBubble™

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.

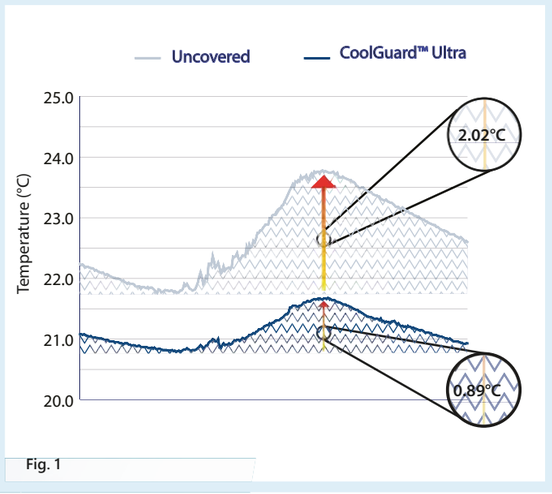


Fig. 1

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.

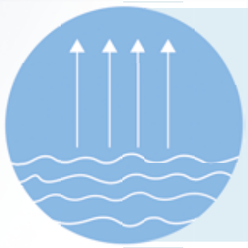
The graph in Fig. 1 demonstrates CoolGuard™ Ultra's ability to minimise daily solar gains when compared to an uncovered pool, while also preserving the water resource though evaporation control. As can be seen the covered pool is cooler overall and provides a 55% reduction in peak daily solar gains.

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 a uncovered pool. Plastipack materials are tested to prevent over 98% of evaporative losses.

Fig. 2

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

Polyethylene Film	Dual-Extruded
UV Protection	140 kLys/yrs 0.9% Additive 180 kLys/yrs 1.2% Additive
Colour	Reflective Glacial Blue
Thermal Properties	Vicat Softening Point (1kg) 93°C
Cold Crack Temperature	-25°C
500 microns thickness ***758 microns thickness**	Bubble Film = 350 micron +/- 10% Back film = 150 micron +/- 10% *Woven top layer = 258 micron +/- 10%
Weight per m²	460gms +/- 10% *637gms +/- 10%
Overall Bubble Width	2000mm / 2500mm +/- 1%
Welding Edges	30mm +/- 10%
Overall Width	2060mm / 2560mm +/- 10%
Roll Diameter	0.80m +/- 1%
Roll Length	102m +/- 2%
Est. Quantity for 120m³ truck	2.5m = 14,535m² = 57 rolls 2m = 15,912m² = 78 rolls
Est. Quantity Containers	20ft = 4,692m² = 23 rolls 40ft = 11,220m² = 55 rolls
Packaging	Packaged in Polyethylene bags
Core Diameters	Internal 76mm/External 80mm
Identification	Batch Identification by Q.A. slip and label showing Length/Grade
Warranty	8 year pro rata warranty

GEOBUBBLE™ TECHNOLOGY	
Bubble Width x Length	15x30mm
Bubble Height	5.5mm
No. of bubble per m²	1943

***WOVEN TOP SHEET**

	Material	Tensile Strength (N/m)	Tear Strength (N)
Warp	HDPE	50	160
Weft	HDPE	50	160

Company information:
www.plastipack.co.uk

Product information:
www.geobubble.co.uk

Water storage:
www.vapourguard.co.uk

Wainwright House, 4 Wainwright Close, Churchfields Industrial Estate,
St Leonards-on-Sea, TN38 9PP UK

t: +44 (0) 1424 851659 e: info@geobubble.co.uk

4 LDPE

Smart Approved WaterMark