

## What is an EnergyGuard Cover?

The innovative EnergyGuard cover inhibits swimming pool algae and saves money, time, water and energy usage.

The product has a grey top surface and a black underside. It is this combination that gives the EnergyGuard cover the ability to provide a variety of benefits to the pool owner.

The EnergyGuard swimming pool bubble cover material is sold in roll

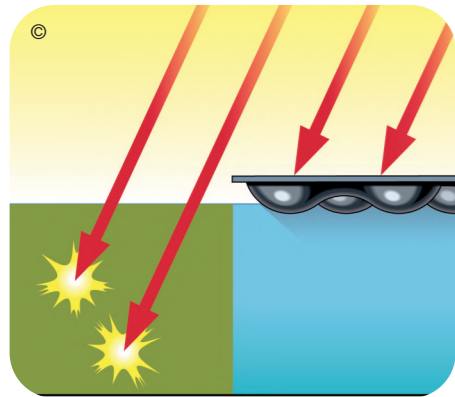
form to fabricators around the world for commercial and domestic use.

The durable 500 micron pool cover materials used for EnergyGuard, CoolGuard and Sol+Guard are formulated for climate conditions in various continents of the world depending on UV (ultra violet) weathering intensity.

The Sol+Guard and EnergyGuard materials are supplied in two UV formulations:

one for areas up to 140 kLys/yr (Kilolangley years) and one for up to 180kLys/yr. CoolGuard is supplied for areas up to 180kLys/yr.

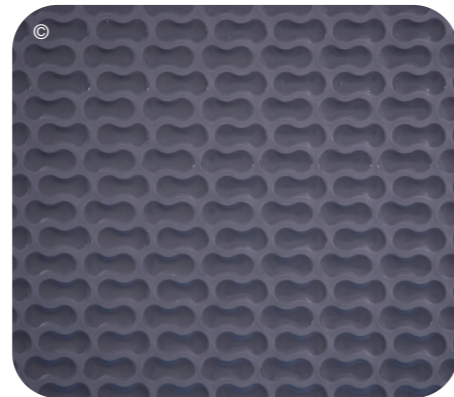
The additives we use combine weather and chemical resistant pigments with high performance light, weather and chemical stabilisation. The additives used are non-toxic and registered in Australia, Canada, China, EU, Japan, Korea, Philippines and USA.



Inhibit algae growth

## Reduce Debris Contamination

Debris such as leaves, dirt, insects and bird droppings are not only unsightly in a pool but also provide nutrients for algae and bacteria to feed on. When the pool is covered these contaminants will be kept out of the water, greatly improving the quality and appearance of the water.



EnergyGuard

## Inhibit Algae Growth

The EnergyGuard cover inhibits algae growth in outdoor and indoor swimming pools. An EnergyGuard cover will block the light from entering the water, therefore stopping photosynthesis and inhibiting algae growth.

Research and scientific tests proved that the EnergyGuard cover inhibits algae growth even without chemical treatment.

Inhibiting swimming pool algae offers many advantages to the pool owner:

- Save money by using up to 70% less pool chemicals
- Reduce electricity usage and costs by cutting filtration/pump time by up to 50%
- Lower the risk of eye, ear, skin and gut infections
- Reduce filter blockages
- Avoid slippery surfaces
- Improve the aesthetics of the water
- Save money and time preparing a pool after the winter period.

## Tests prove that the EnergyGuard cover works

The pools in the images were both tested for ten days with no chemical treatment, no filtration and with simulated use. The pool shown in the left hand image had a standard solar gain cover and soon went green due to algae growth. The image on the right shows a pool with the EnergyGuard cover with no algae growth. The test was continued for two months and this pool still remained clear of algae when the test period ended.



Pool with or without a standard solar cover



Pool with an EnergyGuard cover

## Winter Pool Cover

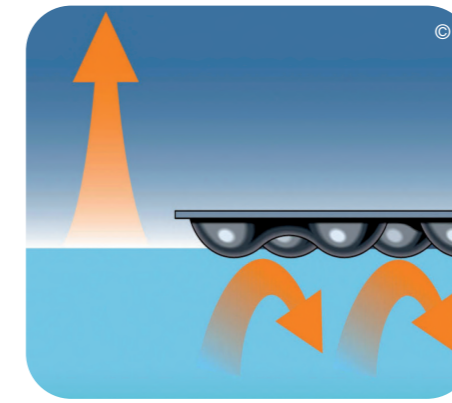
The EnergyGuard cover can be used all year. A test in the UK proved that it has many benefits as a winter pool cover.

A pool was covered with an EnergyGuard cover and a woven mesh debris cover from October 2008 to April 2009. No winter pool chemicals were used. The water was clear of algae after the 6 month period.

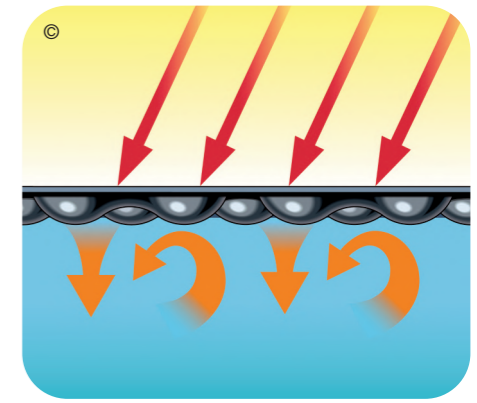
A pool owner will save many hours of pool preparation time by not having to filter, backwash and vacuum the pool, as well as saving money on chemicals and electricity usage.

## Reduce Filtration/Pump Time by up to 50%

Filtration time can be cut by up to 50% when algae growth is inhibited. This will greatly reduce your electricity usage. Filtration will still be required to remove dirt/impurities from the pool and to circulate the water. A 50% reduction is achievable with regular pool use/bathing loads. If the pool is heavily used there will need to be more filtration.



Retain heat



Absorb the sun's energy

## Reduce Chemical Consumption by up to 70%

You can reduce chemical usage because the EnergyGuard cover inhibits algae growth and eliminates water evaporation.

An EnergyGuard cover will provide cost savings by using less chlorine because algae growth will be inhibited by physical means rather than chemical means. The EnergyGuard cover also reduces chemical degradation from photolysis. About 90% of chlorine consumed by outdoor pools is lost due to photolysis reaction. Additional cost savings will be made by using less pH plus/pH minus to correct any pH imbalance caused by algae. All chemical levels and treatment should be maintained at the manufacturers recommended level.

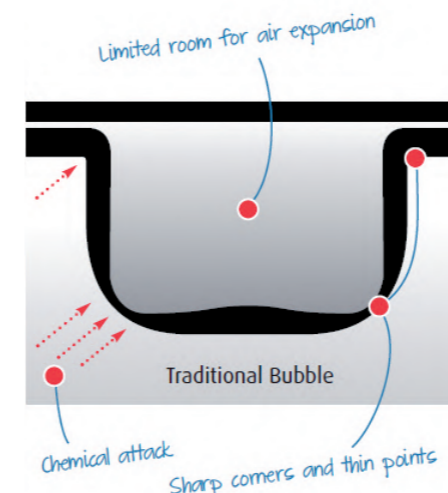
## Reduce Energy Consumption by over 50%

You can reduce your pool heating costs because an EnergyGuard cover will eliminate evaporation and greatly reduce heat radiation. Heat retention tests carried out in collaboration with the Brighton and London Metropolitan Universities, showed conclusive energy savings of over 50%. This applied to oil, gas, electric heater or heat pump usage. Where solar heating is used, it is possible to invest in up to half the amount of panels normally required for a pool without a cover.

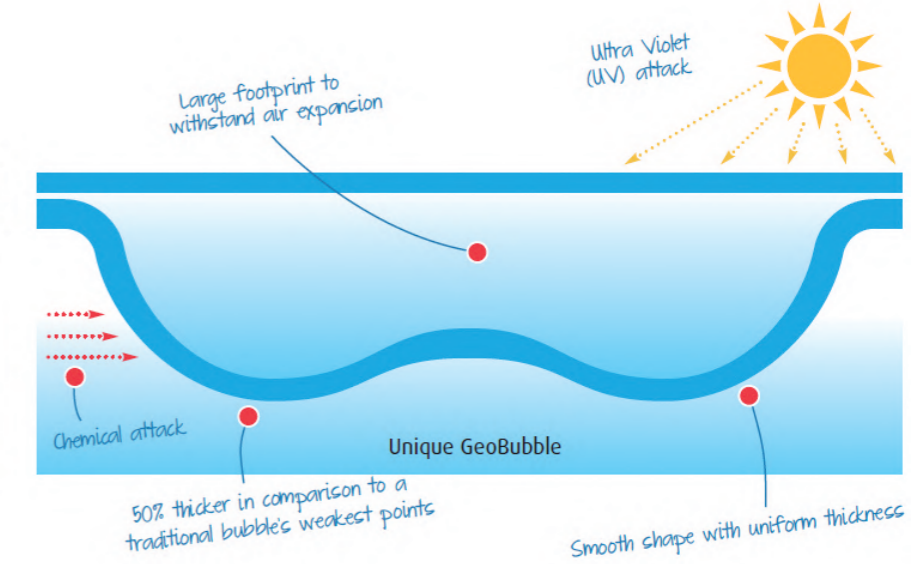
## Absorb the Sun's Energy

The colour black is known to absorb the sun's heat in a very efficient way and research carried out produced an opaque grey colour with similar characteristics. The sun's heat will warm the grey surface of the EnergyGuard cover and this energy is absorbed and transferred into the water surface area directly under the cover. An EnergyGuard cover will also help to retain the heat within the pool.

## GeoBubble Technology



GeoBubble technology combined with high performance Guard materials will give you a longer lasting\* cover with the highest energy and chemical saving efficiencies.



Scientifically designed to be more resistant to chemical and UV attack for longer than a traditional shape bubble, and as a result its expected lifespan will increase by 25%+.\*

Eliminating weak and thin points gives you a stronger pool cover that can withstand chemical and Ultra Violet (UV) attack which leads to premature failure.