

Technical Information Bulletin

BioGuard® Liquid Blanket 500ml

Evaporation is one of the most rapid modes of heat loss from pools and spas. The main factors that affect evaporation rates from domestic outdoor pools and spas are:

1. **Pool Surface Area-** The larger the pool, the more surface area, therefore, a greater evaporation volume.
2. **The Temperature of the Water and Air-** For example, on a hot day, the greatest evaporation occurs at night as the pool water remains warm while the air temperature falls substantially. This means, greater evaporation occurs when the temperature difference between the air and water is greater.
3. **Humidity-** The drier the air, the greater the evaporation rate. In very humid conditions less evaporation occurs.
4. **Wind-** A gentle breeze of 11 kilometres per hour can more than double the evaporation rate by removing the insulating layer consisting of warm, moist air directly above the pool surface.

It has been known for many years that some industrial alcohols can reduce evaporation, but alcohols degrade very quickly and must be re-applied every couple of days. There is one product that uses the same concept but with silicone that reduces evaporation by over 50% and helps retain water temperature.

What is BioGuard Liquid Blanket?

BioGuard Liquid Blanket is a highly effective and unique silicon-based product, which forms a thin colourless layer on the surface of the pool or spa and adapts to any shape. It can save water, heat loss and money. It can reduce water evaporation by over 50%.

One of the key advantages of this product is that its an effortless alternative to bulky conventional solar pool covers or rollers. **BioGuard Liquid Blanket** is non-hazardous, non-toxic, easy to apply and is ideal for salt or fresh water pools. Best of all, there is no waiting- bathers can swim in the water any time after applying **BioGuard Liquid Blanket**. Other similar products are industrial alcohols which degrade very quickly and must be re-applied every couple of days - more work/more hassle for the end consumer.

Is Liquid Blanket safe?

Yes it is! Silicones are used in hundreds of applications including water-repellent sealers, hair conditioners and lipsticks. They are also used to reduce foam in commercial food applications and as non-stick sprays. Liquid Blanket does not affect the chemistry nor prevents oxygenation of the water.

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What about the effect of waves and strong winds?

Wave action and strong winds can disturb the Liquid Blanket film temporarily, but the silicone lattice will re-form when the wind drops.

How much Liquid Blanket needs to be applied?

Simply multiply the length and width of the pool or spa and the result is the amount of **BioGuard Liquid Blanket** to apply directly onto the water surface twice weekly.

For example

7m long x 5m wide = 35m² therefore 35ml of **BioGuard Liquid Blanket** would be added twice weekly.

In summary, **Liquid Blanket**:

- Is a Product which reduces evaporation of water from pools and spas by over 50%.
- Is a Unique highly effective silicone-based product can save water, heat loss, money and is easy to apply.
- Does not affect the chemistry and oxygenation process of the water.

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