



# ***WaterGuard***

*Liquid blanket to save water*





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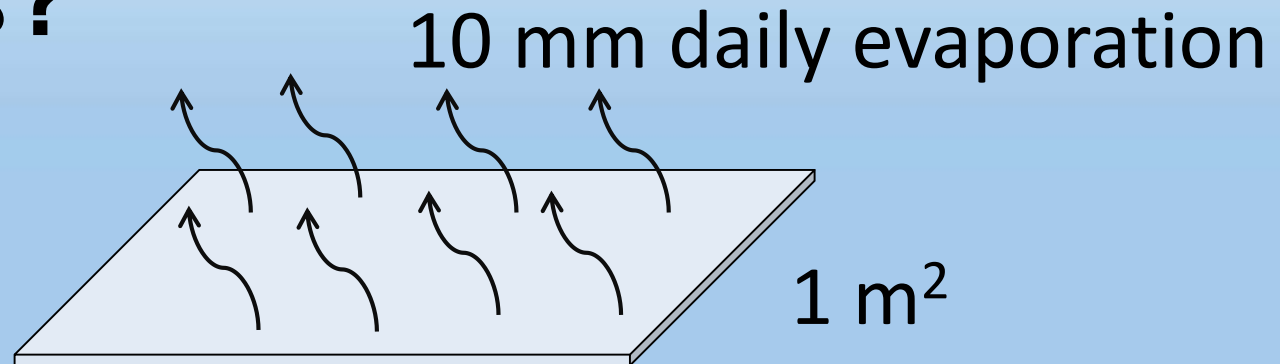
# Introducing..... WaterGuard!

A unique liquid which spreads over the surface of water to form a very thin film and reduce evaporation.



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# How Significant Are Evaporation Losses?



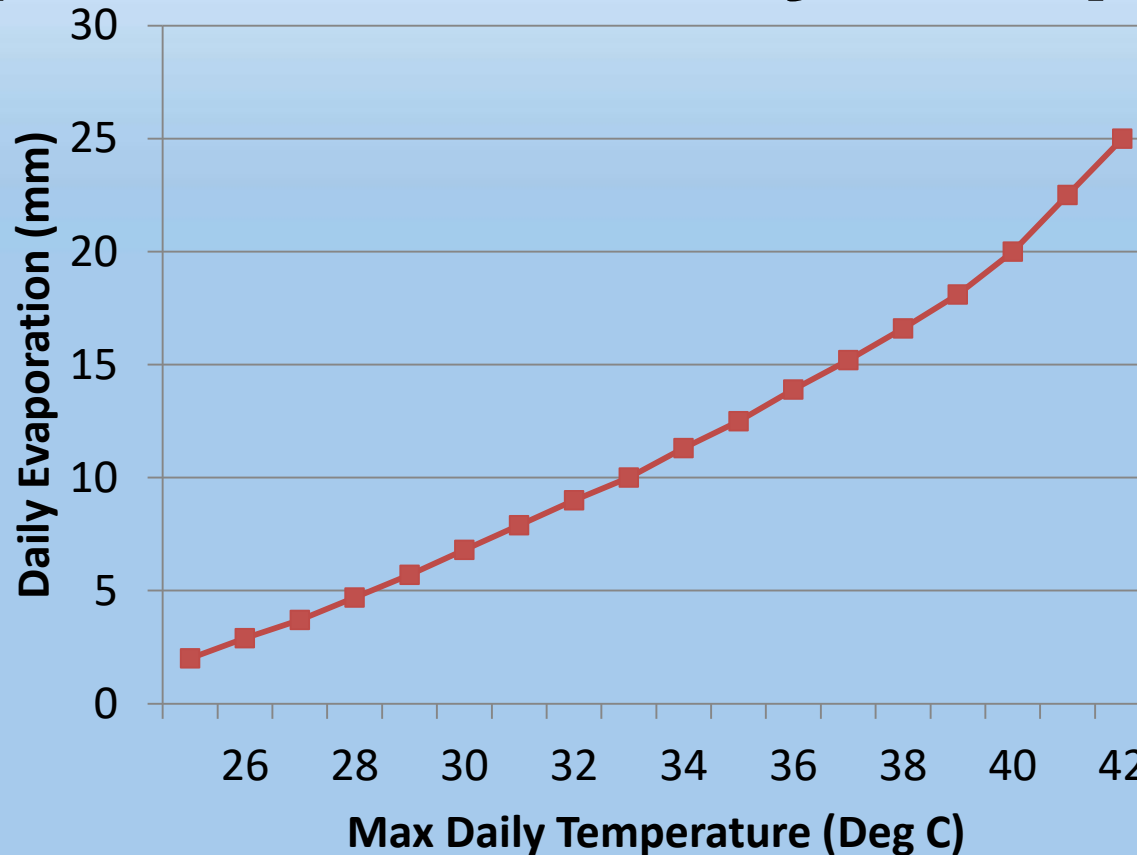
**1 m<sup>2</sup> x 10 mm evaporation = 10 litres per day**

**1 hectare reservoir = 100,000 litres per day**



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# Evaporation vs Daily Temperature



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# Self-Spreading Film



**WaterGuard spreading  
across the surface**



**A few minutes later**



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# How Does WaterGuard Work?

- The polymers in WaterGuard repel each other strongly when they come in contact with the water.
- This results in a strong spreading action across the surface, forming a liquid ‘blanket’ to reduce evaporation.





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# Is WaterGuard Safe?

- All components are safe chemicals - many are used in food and pharmaceutical applications.
- certified for application to drinking water reservoirs by NSF International – the world’s foremost certification authority.



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# Rain, Wave And Wind Action?

- The film is very resistant to disturbances.
- It will move around slowly over the surface in strong winds. Minor build-up will disperse when the wind drops.
- Rain will not be affect the blanket – the raindrops go through without disturbing the film.





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# Pilot Tests Of Evaporation Reduction



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# Application Methods

- WaterGuard can simply be poured on to the water directly from the drum, and it will spread rapidly across the surface.
- For larger water bodies, it can be applied by boat, or even by air.



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# Application Of WaterGuard



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# What Savings Can You Expect With WaterGuard?

Trials have achieved evaporation savings of 50% and above.







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# Evolution Mining, Lake Cowal, Australia



## 50 % Reduction In Evaporation



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# Barona Creek Golf, California



Several water bodies, ranging from 0.4 to 6.4 hectares.  
Average 67% reduction in evaporation.



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# Sycuan Golf, California



Several water bodies, ranging from 0.2 to 0.6 hectares.  
Average 74% reduction in evaporation.



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# Tarcoola Cotton Farm, Dalby, Australia



Approx 50 % Reduction In Evaporation



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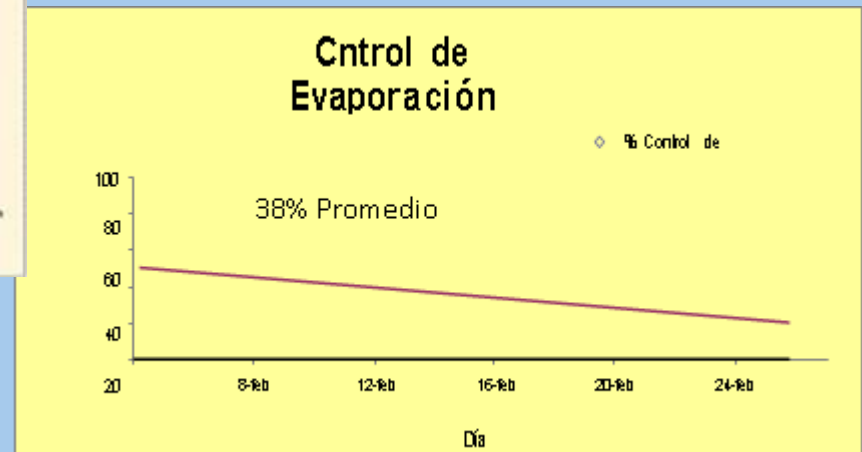
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# Mining Companies, Chile

## Teck Andacollo



## Chuquicamata





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# Advantages

- **Cost – effective**
- **Does not affect the water chemistry**
- **Eco-friendly**
- **Degradable**
- **Easy to apply**





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**We Can't Make It Rain....  
But We Can Help Ease The Pain!**



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