



Aquatain

**LIQUID
ANTI-EVAPORATION FILM**

**TRUSTED
RESULTS TO
SAVE WATER!**

**Easy to apply
Safe for drinking water
Safe for the environment
VERY Cost-effective!**

Evaporation – how much water do I lose?

Evaporation is the single largest cause of water loss.

Every square metre of water surface loses about 8 litres to evaporation every day in the warmer months.

This means that even a small farm dam of 1,000 square metres will lose 8,000 litres per day. A 100 hectare dam loses 8 megalitres per day, or 56 megalitres every week

The table shows evaporation losses for typical dam sizes ranging up to 100 hectares.



| Dam area | Evaporation at 8 mm per day* | |
|--------------|------------------------------|------------|
| | Daily | Weekly |
| 1,000 sq m | 8,000 Lt | 56,000 Lt |
| 5,000 sq m | 40,000 Lt | 280,000 Lt |
| 1 hectare | 80,000 Lt | 560,000 Lt |
| 5 hectares | 400,000 Lt | 2.8 mL |
| 20 hectares | 1.6 mL | 11.2 mL |
| 100 hectares | 8.0 mL | 56.0 mL |

*Typical daily evaporation during the warmer months in most parts of Australia

What is Aquatain?

Aquatain is a unique silicone-based liquid which spreads across the water surface, forming a very thin film and greatly reducing evaporation.

The concept of a monolayer is not new – it's been known for many years that some industrial alcohols can reduce evaporation in this way, but alcohols degrade very quickly and must be re-applied every couple of days. Aquatain uses the same concept, but with advanced materials to greatly improve its performance and longevity.

How much water will I save with Aquatain?

Independent trials using Aquatain have achieved evaporation savings of around 50%.

(Copies of trial reports available on request.)



Dalby, Queensland

**Aquatain in foreground –
approx half way across dam**



Dalby, Queensland

**Aquatain continuing to
spread across dam**



Is Aquatain 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 in the baking trade.

An independent water quality report has concluded that:

- Aquatain added to the surface of water bodies does not affect the chemistry of the water
- the film of Aquatain does not prevent the water from oxygenation
- there is no evidence that aquatic life suffers a negative effect
- Aquatain does not produce any effects that would be deleterious for potable water quality.

Copies of the report, as well as other information on silicones in the environment, are available on request.

What about the effect of waves and strong winds?

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

How much Aquatain do I need to apply?

If applying Aquatain manually, we recommend an application rate of 2 litres per hectare every 10 days. If using a dosing unit (see next page), the settings are calibrated to release approximately this amount.

What drum sizes are available?



- 20 litre drums
- 110 litre drums
- 200 litre drums
- 1,000 litre IBCs

See back page for the most suitable size for your water storage.

Aquatain spreading across dam at Boomerang Golf Course, Colorado, USA



How do I apply Aquatain?

Aquatain can be applied by simply pouring it directly from the drum on to the water. It will spread rapidly across the surface.

However, to ensure regular dosing and to enable you to 'set it and forget it', two automatic dosing units are available:

The **DS-1** is designed for storages with a surface area up to 1 hectare (10,000 square metres), and is operated by 2 x 1.5 volt batteries

The **DS-2** is designed for larger storages, and is solar powered.

Each unit delivers a programmed dose at regular intervals.

For storages greater than 20 hectares, aerial application is recommended.



DS-1 Dosing Unit



DS-2 Dosing Unit

What drum size and dosing unit do I need?

Simply calculate the area of your water storage and match it to the drum size and method of application below.

| Dam area | Aquatain drum size | Dosing system |
|---------------------|--|---|
| 0 – 1,000 sq m | 20 Litre | Manual |
| 1,000 – 10,000 sq m | 20 Litre | DS-1 |
| 1 – 5 hectares | 110 Litre | DS-2 |
| 5 – 10 hectares | 200 Litre | DS-2 |
| 10 – 20 hectares | 1,000 Litre IBC | DS-2 |
| > 20 hectares | Combination of above (depending on area) | Multiple dosing systems or aerial application |

And finally... is Aquatain cost-effective?

Trials have confirmed that the water savings from using Aquatain far outweigh the costs. With water prices likely to escalate in many areas, Aquatain will become even more cost-effective.

A ready Reckoner is available for calculating the potential water savings for your particular situation – ask us for a copy!



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