AZOLLA QUICK TREATMENT REFERENCE GUIDE



There are two major species of Azolla present in Australia; Azolla filiculoides and Azolla pinnata. Both are native and can form dense mats that cover the entire water surface in freshwater systems.



Azolla filiculoides is a small, free floating freshwater fern, green to reddish-brown or purplish orange or red at the edges, branching freely, and breaking into smaller sections as it grows.

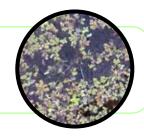


Azolla pinnata is a small free floating fern with a triangular frond measuring up to 2.5cm. They are green, blue-green, or dark red in colour and coated in tiny hairs, giving them a velvety appearance.

Primary Growth Stage

0-30% of the water body is covered in Azolla

Primary growth occurs in the early stages of an infestation, when plants are not crowded.



Secondary Growth Stage

30-60% of the water body is covered in Azolla

Secondary growth occurs when the water surface is barely visible but the Azolla is still only a single layer.



Tertiary Growth Stage

60-100% of the water body is covered in Azolla

Tertiary growth occurs when the plants become crowded and mature in infestation. Overlapping is common.



Multilayered Growth Stage

100%+ of the water body is covered in Azolla (mature & overlapping growth)

Tertiary weed mats become multilayered, displaying ridge-like thickenings as layers overlap and build up.



Once you have categorised your Azolla bloom, you can then choose your treatment.

Use the table below to help you:

	Treatment Options		
Growth Stage	AQ200 Herbicide	Orange Oil Herbicide	Azolla Skimmer
Primary	\checkmark	\checkmark	✓
Secondary	\checkmark	✓	✓
Tertiary	✓		✓
Multilayered	\checkmark		

TREATMENTS AQUATIC TECHNOLOGIES OFFER

What you use your water body for will also play a role in the type of treatment most suitable for you. For example if you are unable to withhold using the water for 10-days, then an AQ200 herbicide may not be suitable.

There are different treatment methods available to suit most types of water bodies. Continue reading to find out which treatment is most suitable for your waterbody.

Chemical Herbicide Treatment: AQ200 + Wetting Agent

1L of AQ200 + 500mL Wetting Agent will treat between 250m² – 500m² of surface area depending on how dense the Azolla growth is.



Tips for treatment:

- If Azolla is greater than 60% surface coverage and/or is multilayered, AQ200 is the only treatment method that will work.
- AQ200 is a 1-hit application that requires no follow up. Spot treat any new Azolla with AQ200 as needed.
- Using a gentle shower spray, spray the AQ200 + Wetting Agent evenly to make contact with the Azolla. When multilayered, make sure to well wet the Azolla with AQ200 to get good coverage.
- AQ200 is a non-residual herbicide that has a strict 10-day withholding period after use. DO NOT use the water for human consumption, irrigation, livestock watering, etc. for 10 days after application.

Orange Oils: Natural Treatments

1L of Orange Oil will treat between 250² - 500m² of surface area depending on the Azolla coverage.



Tips for treatment:

- Suitable for lower level infestations up to 60% surface coverage. For large infestations greater than 60% coverage, consider AQ200 or physical removal.
- Orange Oil is a natural herbicide that won't alter the water and has no withholding period. The water can be used immediately after application.
- Orange Oil requires a minimum of 3 separate applications, on day 1, day 2, and day 4. It's advised to do several light applications, instead of a single heavy dose.

Physical Removal: Azolla Skimmers



Tips for treatment:

Physically removing Azolla from the water's surface with an Azolla Skimmer will reduce the likelihood of future blooms by decreasing the total amount of nutrients in your waterbody. Nutrient-rich water lets aquatic vegetation thrive, meaning you may experience repeat infestations of unwanted Azolla or other aquatic weeds.

Easily remove Azolla from your water body in 4 steps:

- 1. Toss the skimmer in the water
- 2. Slowly pull it back in using the string attached
- 3. Dump the Azolla out onto the bank or into a container for easy transport
- 4. Repeat
- 5. Follow-up spot spraying with either AQ200 or Orange Oil herbicide is recommended.