



Surround[®] WP

Crop Protectant

**Protection you can see.
Performance you can trust.**

Surround[®] – Flexible application strategies to maximise protection against sunburn and heat stress.

Surround has been proven to reduce sunburn and heat stress in a wide range of crops in many parts of the world.

In order to maximise protection it is important to follow application guidelines developed over many years in commercial orchards, and the Surround label incorporates a range of flexible application strategies.

A planned Surround program provides significantly better value and more consistent results than ad-hoc applications made sometimes only the day before a heat event. It is important to note that applications following a heat event will not repair existing damage.



Good coverage with Surround on the left hand side.

The aim of a Surround program is to cover exposed leaves and fruit evenly with two or more sprays (total combined application rate of approximately 75 kg/ha) before the first heat event occurs. Fruit damage is caused by a range of factors, and as a general rule can occur when air temperatures exceed 28°C.

In cooler parts of Australia heat events may not occur until December, while in hotter areas they can commence in October.

Application

Go early and often

First Surround applications should commence soon after fruit formation and before conditions occur that lead to sunburn damage.

Surround application strategies vary between growers depending on their individual situation and application equipment. One of the key benefits of Surround is its high visibility, which allows growers to easily confirm the evenness of their application and make improvements as necessary.

The Surround label provides for an initial application of 5 kg/100 litres of water, however there is also the option for growers to apply lower rates more frequently and starting earlier in order to build up coverage to 75 kg/ha before the first heat event. This option is often chosen so that Surround can be applied with cover sprays.

Just like spray painting, many light coats of Surround can provide the best result. If high concentrations are applied with a large droplet size, application can be blotchy and spray solution can run off the surface into the stem end or calyx.

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The sprayer should be adjusted to apply a fine coat to exposed leaves and fruit. If applying Surround alone it is not necessary to blast spray through the canopy. Some growers achieve this spray pattern by switching off the fan and blocking the bottom nozzles on air blast sprayers.

Changing to finer nozzles can reduce droplet size and may give better coverage.

Alternating the direction of travel down the rows with subsequent applications will assist with achieving even coverage.

Mixing

The physical properties that give Surround its superior reflective ability mean some challenges when mixing.

DO NOT DUMP Surround into the spray tank. Pour it in evenly while maintaining vigorous agitation.

Mixing tips

1. For sprayers with nominal agitation:
 - a. Pre-mix using a Grani-pot[†] or mechanical mixing tank.
 - b. Add product to water slowly to avoid blocking sump and pump.
 - c. Maintain maximum agitation throughout the application process.
2. For sprayers with good agitation:
 - a. Half fill spray tank with clean water.
 - b. Start agitator with maximum power.
 - c. Slowly add the Surround through the top of the tank (remove filler basket).
 - d. Maintain maximum agitation throughout the application process.

Adjuvants

While not essential, an adjuvant such as Du-Wett[‡] can assist in improving the coverage by Surround. More information on Du-Wett use with Surround can be found at agnova.com.au. Refer to the Du-Wett label for details on registered crops.

Re-application

Rain, wind and fruit growth can reduce coverage and hence protection. Surround should be re-applied as required to maintain even coverage on fruit and foliage.



Pre-mixing Surround in the water vortex of a Grani-pot is quick and effective.

For best results, maintain Surround coverage throughout the sunburn season.

Always read the product label prior to opening the packaging.

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