



Surround® WP

Crop Protectant

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. The product label was changed in 2009 to provide more flexible application strategies.

A planned Surround program gives much better value and more consistent results than ad-hoc applications made sometimes only a day before heatwave conditions or following sunburn damage.

The end result



An apple showing satisfactory coverage of Surround.

The aim of any Surround program is to cover exposed leaves and fruit evenly with 2 or more sprays (total combined application rate of approximately 75 kg/ha) before the first heat event occurs. Fruit damage may occur when air temperatures exceed 28° celsius.

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

Application

Go early and often

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

Surround application strategies vary between growers and depend 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 quality of their application and make improvements as necessary.

While the Surround label recommends the initial application at 5kg/100 L of water, many growers choose to apply the product in lighter concentrations applied more frequently. In 2009 the label was changed to reflect this use, with the provision that at least 75 kg per hectare is applied before the first heat event and is re-applied as required to maintain coverage.

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 run off the surface into the stem end or calyx.

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.

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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 coverage of 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 and reduces the risks of climbing onto the spray rig.

Surround[®] Protection you can see. Performance you can trust.

For more information contact your local retailer or visit www.agnova.com.au

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