

Tank-mix compatibility

Surround® WP crop protectant, from Engelhard, can be tank-mixed with most agricultural spray products.

It is impossible to say that Surround WP is compatible with all products, under all conditions. However, tank-mix pest efficacy data, multi-year observations of numerous tank-mixes done in commercial use, and the chemical and physical properties of Surround WP suggest that Surround WP is broadly compatible with pesticides and other tank mix ingredients.

Tank-mixes with Surround WP have been made for many years with many different spray products and most sprays are applied as tank-mixes. Indeed, tank-mixability is a key advantage of Surround WP.

The chemical and physical properties of Surround WP do not lend themselves to incompatibility. Surround WP is designed to be both inert and non-sorptive. These features reduce or eliminate potential interference of both Surround WP with other spray products, and of other spray products with Surround WP. In fact, the active ingredient in Surround is mineralogically related to the mineral bases used for decades in wettable powder formulations.

The planned tank-mix should be tested before use. When mixing with other products, pre-test a small batch for curdling, precipitation, spray beading and/or excessive run-off leading to lack of film formation, or changes in viscosity which are signs of incompatibility. Use of anti-foaming agents may interfere with proper coverage.

Tank-mixes with oils may temporarily reduce the whiteness of the film.

Oversprays of products that require absorption into the plant should use adequate volumes of water to completely wet the existing Surround WP film.

Tank-mixes and over-sprays to avoid

ReTain® plant growth regulator - Do not tank-mix ReTain with Surround WP or over-spray ReTain on Surround WP treated fruit trees, as this tank-mix and over-spray have not yet been thoroughly studied.

Other sunburn products – Tank-mixing with other white mineral particulate products such as diatomaceous earth, or other sunburn materials, such as those containing wax, latex or polymer based materials can lead to post harvest wash off problems. Applications of Surround WP over such products or oversprays of such products over Surround WP can also impair post harvest wash off.

Post fruit-set oil sprays – Tank-mixes with oils and oil over-sprays may impair wash off if used post fruit-set.

Sulfur - If tank-mixing with sulfur, use wettable sulfur. Do not tank-mix plain elemental sulfur with Surround WP.

Tank-mix application tests of Surround WP with the following commonly used crop protection products worldwide indicate no loss of pesticidal efficacy.

Insecticides

Vertimec® abamectin
Confidor® imidacloprid
azinphos-methyl, e.g., Gusathion® brand
Diazinon
Carbaryl
Methomyl, e.g., Lannate® and Nudrin® brands

Fungicides

Captan
Rubigan® fenarimol
Systhane® myclobutanil
Mancozeb, e.g., Dithane® brand
Dodine
wettable sulfur, e.g., Thiovit® brand
Ziram

The following order of addition should be followed when tank-mixing Surround® WP crop protectant with other spray products in a tank that has agitation:

1. Fill the spray tank with water and commence agitation.
2. Add the Surround WP powder. Surround WP should be added to the tank before any other product.
3. Ensure that the Surround WP is fully dispersed in the spray tank prior to adding any other product.
4. Add the additional product (refer to label for mixing instructions).
5. Continue good agitation whilst spraying.

Listing of the following product trademark and companies does not suggest that the company listed necessarily endorses tank-mixes of Surround WP with their product.

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Nudrin is a registered trademark of Crop Care Australia. Ltd
Retain is a registered trademark of Valent BioSciences Corporation, USA

Important: Always read the label before buying and follow label instructions when using this product.

For more information contact your retailer or AgNova Technologies at www.agnova.com.au

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