

Tank mix adjuvancy at its best with Adsee® AB 650



Crop protection products are meant to overcome the damaging effects of disease, insect pests, fungal growth and competing weed species to ensure high yields and quality crops that meet the requirements of the consumer.

Effective delivery of these crop protection products contribute to their cost effectiveness and the protection of the environment as a whole. Adjuvants are essential in improving this delivery process. They help in reducing waste by delivering the crop protection product exactly where it is needed – for example by enhancing the penetration into the plant leaf.

For many years AkzoNobel has been developing adjuvants exactly for this purpose. Adsee AB 650 is a clear example of a tank mix adjuvant that has been designed for use with a wide range of crop protection products and under a wide range of conditions. The product has been extensively field tested on a worldwide scale and a multitude of test data is available.



Adsee AB 650

This tank mix adjuvant is a specific blend of a modified amine polymer with a sugar based surfactant and also contains an organic buffering agent. The two major components of the product each have their specific functions:

- the sugar derivative provides excellent wetting and spreading properties, which allow improved distribution of the spray over the plant leaves.
- the amine polymer takes care of better adhesion to the plant surface and facilitates the penetration of the active material through the wax and cuticle layers into the plant system.

The interaction of the two surfactants results in synergism, giving excellent results with both contact and systemic crop protection products.

The organic buffer allows the use of Adsee AB 650 with various water qualities.

Use recommendations

Adsee AB 650 is designed specifically for mixing with crop protection products in the spray tank immediately prior to spraying.

It is important to add and homogenize Adsee AB 650 with the water in the spray tank before adding any other components. This will help avoiding possible compatibility problems.

The adjuvant is a low viscous liquid and mixes easily with water at normal temperature (between 5 and 25°C). Adsee AB 650 will perform equally well in soft and hard water conditions.

The dose rate can vary between 25 and 150 ml per 100 l water depending on the spray volume that is used. With low water volumes, like 100-250 liter per ha, Adsee AB 650 has proven to be a very effective tank mix adjuvant at 0.1-0.15 %. If high water volumes are applied (e.g. 500 liter per ha or more) it is advisable to use 0.025-0.05 %.

Product performance

Many years of field experiments have proven the outstanding performance of Adsee AB 650 even at low dose rates. This adjuvant is much more than a simple 'wetter' or 'spreader'.

Adsee AB 650

- enhances the effectiveness of crop protection products under adverse conditions, for instance when used on resistant weeds species, in severe climatic conditions or with late treatments.
- increases the penetration of systemic crop protection products resulting in faster uptake.
- improves rain fastness due to this faster uptake through the leaf wax and cuticle layers.
- increases spreading on and adhesion to the leaves allowing for more consistent results with crop protection products, which are active at the leaf surface.

Cost-efficiency as a result of the above mentioned performance characteristics, Adsee AB 650 optimizes the application rate of crop protection products, while assisting in increased crop yield. In case access to water is critical, Adsee AB 650 allows reduction of spray volumes per hectare.

Application

Adsee AB 650 can be safely used in a variety of areas including weed, fungal and insect control. In addition the adjuvant has shown good performance with miticides, growth regulators and micronutrients.

	Row crops (cereals, oil seed rape)	Tree crops (fruit trees, grapes) **	Non-food (turf, railroads)
Selective herbicides	Sulfonylurea		Sulfonylurea
Non-selective herbicides	Glyphosate	Glyphosate mixtures	Glyphosate mixtures
Contact fungicides	Chlorothalonil	Organo metallics Dithiocarbamates	
Systemic fungicides	Triazoles, Morpholines, Strobis	Triazoles Strobis Carboxamides Pyrimidines Hydroxylanilides Quinolines	
Growth regulators	Chlormequat *	IGR (pyriproxyfen, fenotrithion, isoxathion) ***	

* particularly good performance enhancement under cold conditions

** In case of increased phytotoxicity risk on tree crops reduce adjuvant dose rate to 25 ml per 100 l water

*** Insect growth regulators to control scales on citrus, apples and peaches.



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