Sineria

RO-208™

a new generation of 2 different and unique siloxane chemistries-based surfactants, low-foaming and with zero residue.

RO-208™
is used as tank mix compatibility, acidifying agent and a penetrator.

RO-208™
improves scientifically the efficiency through better penetration, wetting and spreading properties, improving deposition and drift reduction.

RO-208™ key advantages:

- Both components of RO-208™ are surface-active
- First component acts quickly on water and hydrophilic activities
- Second component acts slowly on oils and hydrophobic actives
- Second component helps penetration of biological membranes
- Good reduction of surface tension (good adhesion of spray to surfaces)
- Super spreading
- Forms very little foam
- Clear transparent stable liquid formulation.

Sineria

RO-208™

How does RO-208™ work:

Before

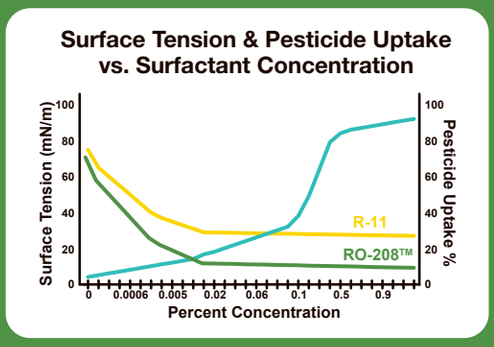
After

RO 208™ acts as a penetrator by 2 mode of action:

1. Distributing on the leaf waxy layer and driving chemicals through this natural layer. The result is a faster and more efficient uptake and response from spray chemicals.

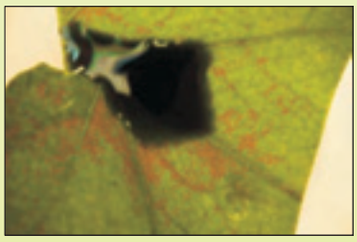
2. Its unique strong chelating property binds the chemical to the rind of Hydroxyl ions and pushes the pesticide or the fertilizers to the target location

RO-208™ surface tension:

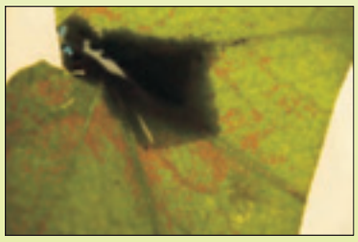


	Concentration (aq. solution)	Spreading 50ul of on PP (mm)	Surface Tension (mN/m)
Water	-	0.8	72
Methylated rape seed oil	0.5%	1.0	33
Other simple Non-Ionic adjuvants	0.1%	27.5	22
RO-208™	0.1%	47.4	25

Visual presentation of how RO-208™ actually penetrate the crop leaf epidermis:

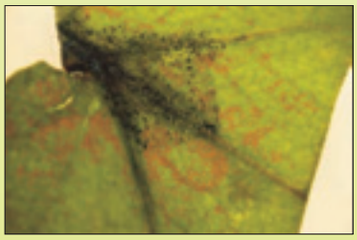


RO-208™ initial application

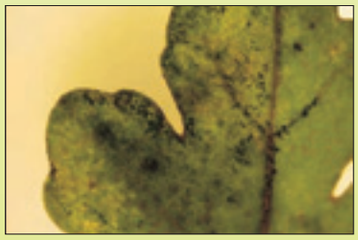


RO-208™ 4 minutes after application

RO-208™ 8 minues after application



RO-208™ 15 minutes after application



RO-208™ underside photo of the leaf 1 hour after application

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Sinerial

RO-208™

BUFFERING:

RO-208™ has acidification properties which prevent degradation of certain agrochemicals that may be caused due to solution high or low pH.

RO-208™ neutralise the dissolved salts that inhibit the water ability to change pH. This in effect softens the water and helps to overcome phytotoxicity problems.

RO-208™ also improves the level of beneficial nutrients that are absorbed by plants. The increased elemental absorption through roots and leaves is due to a great level of available micro-nutrients in tank mixes.

YOUR WATER QUALITYAND ALKALINITY

The quality and physical properties of water have a direct influence on some pesticide performance. High levels of dissolved salts can keep alkaline water buffered at a high pH which may adversely affect some chemicals. In some cases, a direct reaction occurs causing a complete breakdown known as alkaline hydrolysis.

WHAT IS ALKALINE HYDROLYSIS?

When the pH of water exceeds 7 the concentration of hydroxyl ions (OH-) becomes high enough to break down bonds within the chemical structure. This breakdown inhibits the performance of some pesticides. These include herbicides, insecticides, fungicides and growth regulators. Hard water (above 200-250 ppm of dissolved ions) will also be improved by using this product. It has the secondary benefit of softening the water - another cause of loss of activity in many chemicals.

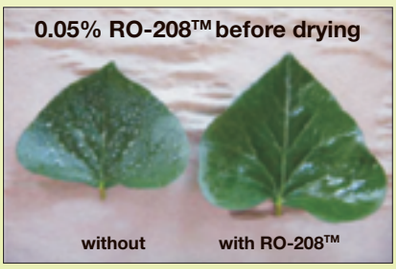
Straight Surfactant

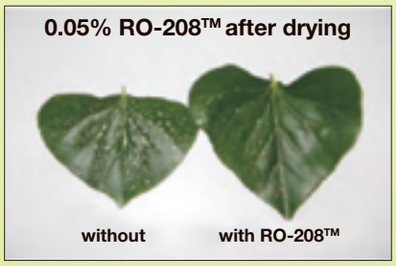
RO-208™ Surfactant

RO-208™ Summary:

- Surfactant blend consisting of 100% siloxane chemistry
- Two modes of action (one pad has an impact on the aqueous phase, and the other part on the oil phase and helps penetration of systemic a.i. through biological membranes)
- Both components improve biological efficacy of pesticides
- Does not foam; may suppress foam formation of pesticides
- Spreading is sufficient so that no spray spots are formed on flowers and fruits
- Provides higher degree of rainfastness
- Aimed mainly for the fruit and vegetable segment, with fungicides & insecticides outdoors and under protected conditions (greenhouse) - also works very well with herbicides
- RO 208TM does not cause phytotoxic symptoms on plants
- No hazardous symbol concerning European rules: toxicologically benign.

Spreading of 0.2% Dithane Ultra (mancozed WG 80%) through RO-208™





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RO-208™

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