

BB5 & BB5 Extra

the spray water conditioner/buffer

A patented water conditioner spray adjuvant, made from a combination of acids, acid esters, and carbohydrates.

BB5 is used as a water acidifier, buffer and wetter with its own "built in logic" capable of solving all spray problems.

BB5 and BB5 Extra are the All in One Spray Water Solution

BB5 and BB5 Extra are the solution for poor pesticide performance. Poor pesticide performance is often the result of common spray water problems including:

- **High pH**
High pH spray water can lead to alkaline hydrolysis and the break down of pesticides
- **Hardness**
Hard water can reduce surfactant properties and bind salts in pesticides leading to reduced efficacy ("spray lock")
- **Conductivity**
The higher the conductivity the higher the salt content and the greater the chance of antagonism from spray lock and compatibility

Unique Features of BB5

Acidifies alkaline and hard waters: BB5 reduces pH, water hardness, and conductivity by tying up the responsible salts and prevents the break down of pesticides.

pH indicator: BB5 contains a built in visual pH indicator that eliminates the need for expensive pH measuring equipment.

Buffering: BB5 is automatically buffered which will prevent over-acidification if too much is added.

Wetting, spreading and penetration: BB5 contains built in wetters and spreaders to reduce surface tension and give better spray water coverage of the leaf. Penetrators enhance movement of the spray water through the waxy layer of the leaf surface for improved absorption.

Compatibility aid: BB5 improves the compatibility of pesticides and foliar feeds to eliminate additional sprays and cut costs.

BB5 and BB5 Extra are the solution for high water pH, hardness, and conductivity

- BB5 and BB5 Extra reduce pH, water hardness, and conductivity in one step
- BB5 and BB5 Extra allow for maximum efficacy of foliar sprays and pesticides
- BB5 and BB5 Extra are effective in the spray tank and continue to be effective on the leaf surface
- BB5 and BB5 Extra will not concentrate on the leaf surface and leave a phytotoxic residue like a strong acid does
- BB5 and BB5 Extra helps to reduce foam in the spray tank to enhance performance of the spray
- BB5 and BB5 Extra improve plant uptake by maintaining a mildly acidic environment on the leaf
- Easy to use
- Cost effective
- Safe and compatible with all spray equipment
- Compatible with most pesticides, foliar nutrients, and growth regulators
- Stable in solution
- Flexible dosage rate accommodates wide range of water quality without risk of overdosing



BB5 ties up salts to decrease water hardness and conductivity to improve pesticide efficacy

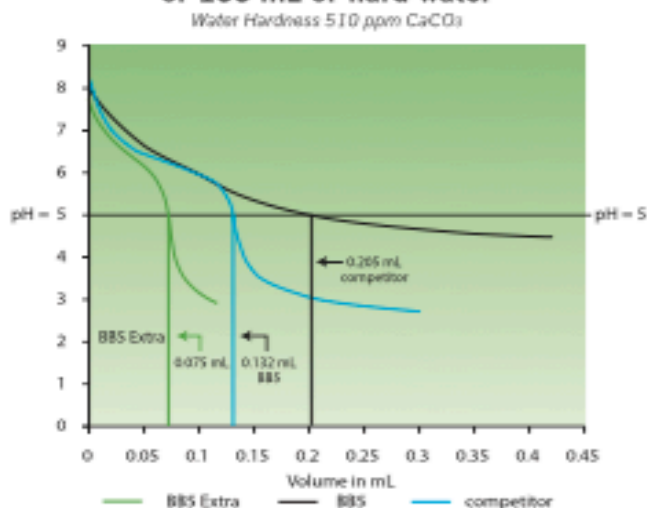
BB5 Extra

The New Water Conditioner

- An economical and more concentrated version of the original BB5 with all of the same advantages
- Laboratory testing has shown that less (approximately half as much depending on water condition) BB5 Extra is required to lower the pH to 5 in 100 L of hard water compared with BB5 and the leading competitor
- BB5 Extra was shown to be 30% more economical than BB5 and 70% more economical than the leading competitor

* based on current retail prices and quantity used

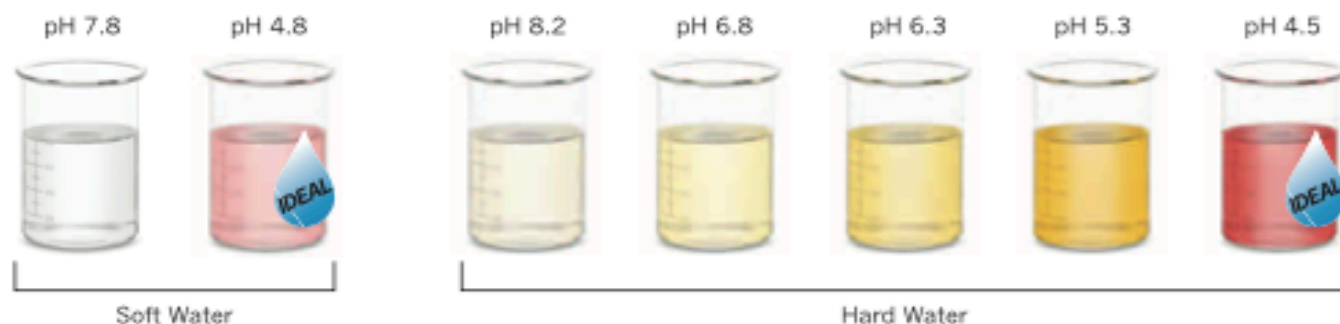
BB5, BB5 Extra and competitor Tritration of 100 mL of hard water



Foliar spray containing BB5 showing no burn (phytotoxicity) due to buffering effect



Foliar spray containing opposition water conditioner - (burn phytotoxicity very evident)



The addition of BB5 in soft or hard waters showing the visual change as the pH drops to the ideal pH level (pH 4.5 - 5.5)

Features of BB5 and BB5 Extra

- Changes colour at the ideal pH range (4.5 - 5.5)
- Improves compatibility of pesticide mixes in the spray tank
- Combats the effects of hard water and alkaline hydrolysis in the tank
- Improves plant uptake by maintaining mildly acidic environment on the leaf
- Contains additional wetters, spreaders, and penetrants to enhance spray performance
- Stable in solution
- Flexible dosage rate accommodates wide range of water quality without risk of overdosing
- Acid components do not evaporate after application
- Safe for use in all spray equipment
- Can be used with most pesticides, foliar nutrients, and growth regulators
- Reduces foam in the tank to enhance spray performance