

KEEP OUT OF REACH OF CHILDREN



BOND[®]

Adjuvant

Xtra

**Organosilicone super-spreader,
Deposition/ retention agent**

To enhance the spreading and foliage deposition and retention of fungicides, insecticides plant growth regulators and nutrients in lower water volumes

Contains:
a proprietary organosilicone / latex polymer blend




NET CONTENTS:
10 Litres



Registered By:
Elliott Technologies Limited
PO Box 838, Pukekohe, New Zealand.
Phone: 0800 100 325
www.elliott-technologies.co.nz



NET CONTENTS:
2x10 Litres

-  PMS 661
-  Pms 485
-  Black

HSNO Class: 6.3A, 6.4B

HEALTH WARNING: Eye irritant. May cause irritation to eyes. Mild skin irritant.
ENVIRONMENTAL WARNING: Toxic to the aquatic environment at very high concentrations only.

PRODUCT DISPOSAL: Ensure unwanted product is used by another operator strictly in accordance with label directions. Do not allow product to enter waterways, drains or sewers.

CONTAINER DISPOSAL: Ensure container is completely empty. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

HANDLING PRECAUTIONS: When mixing or applying wear protective clothing as prescribed for the mixing partners used. Wear gloves and goggles when handling Bond Xtra. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

STORAGE: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Storage must be generally in accordance with NZS8409 Management of Agrichemicals. See the HAZNOTE for further information.

FIRST AID: If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre **0800 POISON (0800 764 766)** or a doctor immediately. If skin, hair or eye contact occurs, remove contaminated clothing and flush skin, hair and/or eyes with running water for several minutes.

PRODUCT INFORMATION

BOND XTRA is a non-ionic surfactant combining the rainfast and deposition properties of a polymer latex with the super-spreading properties of an organosilicone super-wetter, designed specifically for the application of fungicides, insecticides and plant growth regulators in horticultural and arable crops. **BOND XTRA** lowers the surface tension of spray solutions well below commonly used surfactants, but, unlike most other silicone super-wetters, **BOND XTRA** will not give unwanted stomatal infiltration when used at recommended rates. Lower surface tension will result in more effective wetting and more uniform coverage on nearly any surface. In addition, **BOND XTRA** will also enhance the amount of product retained on the leaf surface at spraying by reducing droplet shatter and bounce, and will also give excellent rainfastness for 10-14 days after spraying.

Unlike some other stickers, **BOND XTRA** does not encapsulate the chemical so does not elevate residue levels at harvest nor does it hinder the release of coppers or systemic products.

BOND XTRA readily disperses in spray solutions (aqueous and most non-aqueous). **BOND XTRA** is especially suited to situations where coverage and retention are critical and is particularly suited to low volume spraying and aerial applications where water coverage is a limiting factor.

BOND XTRA, when used according to directions, will decrease off-target spray drift slightly.

BOND XTRA is very useful in a **Du-Wett** spray program and should be used instead of **Du-Wett** whenever rain or overhead irrigation is expected within 5 days of spraying.

IMPORTANT: Before spraying any previously untried mixtures with BOND XTRA, always test the mixture before hand for crop phytotoxicity.

DIRECTIONS FOR USE

BOND XTRA will give best results in low volume spraying – around 25% or less of the normal volume of water when sprayed to the point of run-off. High volumes with **BOND XTRA** can result in excessive run-off of spray liquid. Adjust the water volume, to obtain thorough coverage without excessive run-off. The chart below will serve as a guide to the correct rate of Bond Xtra to use.

Mixing:

1. Fill spray tank half full with water and begin agitation.
2. If foaming is expected add **Fighter F** antifoamer to the tank before adding the pesticides.
3. Add pesticides /foliar nutrients as directed on their respective labels. Maintain agitation.
4. SHAKE **Bond Xtra** CONTAINER THOROUGHLY and add the required amount AFTER all the pesticides are thoroughly mixed in the tank.

Recommendations:

Adjuvants contained in the pesticide formulations can be antagonistic to **BOND XTRA** and **Du-Wett**. As more products are added to the spray tank, antagonism increases. Higher rates of **BOND XTRA** are required to overcome this antagonism. The charts set out below will serve as a guide to tank mix rates of

BOND XTRA. For most economic use of the program substitute **Du-Wett** for **BOND XTRA** if settled weather and no overhead irrigation is likely for a minimum of 5 days after spraying. **Du-Wett** should be used at half of the following chart rates.

Batch No.

DOM

24 Hour Emergency Response
0800 CHEM CALL
0800 243 622

EL162



INCLUSION RATES

CROP	Sprayer Type	Water Litres/ha	Total kgs or litres of chemicals being applied per hectare								
			1	2	3	4	5	6	7	8	9
Rate of Bond Xtra required in mls per hectare											
VEGETABLES											
Hard to wet	Boom	150-250	300	300	450	600	750	900	1000	1100	1200
Easy to wet	Aerial	50-100	200	250	380	500	600	650	700	750	800
CUCURBITS			300	300	400	400	500	500	600	600	700
GRAPES											
Foliage	Air assist	100-250	300	300	400	400	500	500	600	600	700
Bunches		200-250	800	800	800	900	1000	1000	1100	1100	1200
APPLES	Air assist	200-350	400	400	400	400	500	500	600	600	700

CROP CHARACTERISTICS

Crop type	Characteristics	Crop targets
Vegetables	Hard to wet	Brassicas, Carrots, Onions, Lettuce, Tomato (fruit)
Vegetables	Easy to wet	Potatoes, Tomato (leaves)
Cucurbits	Dense canopy	Squash, Pumpkin, Cucumber
Grape Foliage	Easy to wet	Wine and table Grapes (leaves)
Grape bunches	Hard to wet	Wine and table Grapes (fruit)
Apples	Medium to wet	Fruit and foliage

USE THE LOWER WATER VOLUMES WHEN CROP CANOPY IS SMALL OR LIGHT. USE THE HIGHER WATER VOLUMES ON LARGE, DENSE CANOPIES.

Recommendations for use in other crops (avocados, citrus, apples, stonefruit) etc are under development. Consult your Elliott Technologies Distributor for the latest information.

NOTES

1. Optimum spreading and wetting from **BOND XTRA** will occur between pH5 and pH9. Spray mixtures above and below these figures should be sprayed immediately or adjust the solution to within the correct range to avoid breakdown of the **BOND XTRA**. **BOND XTRA** may be used with **LI-700** to adjust pH levels down and to also optimize uptake of systemic products. **Liberate** penetrant should be used where pH adjustment is not required. Do not use **Liberate** on grapes as phytotoxicity may occur.
2. Not all formulations of chemicals behave the same with **BOND XTRA**. Consult your Elliott Technologies Distributor or the **BOND XTRA** Spray Charts for the latest information on individual product spread antagonism before using new tank mixtures.
3. **BOND XTRA** has demonstrated good plant safety. However not all plants and spray mixtures have been tested. Treatments that have a potential for phytotoxicity could be aggravated by **BOND XTRA**. Before treating large areas, a small area should be tested and the results observed.
4. Do not add any other surfactants to **BOND XTRA** other than those products named on this label. For best economic results, substitute **Du-Wett** for **BOND XTRA** if settled weather is anticipated for a minimum of 5 days after spraying.

Compatibility

BOND XTRA is compatible with most commonly used fungicides, insecticides and plant growth regulators. It should not be used with herbicides as stomatal uptake will not occur. Do not mix **BOND XTRA** with spray oils as phytotoxicity may occur. **BOND XTRA** will break down rapidly when mixed with highly acidic or highly alkaline chemicals and poor wetting may result. Do not use **BOND XTRA** with **LI-700** penetrant in water that is neutral (pH 7) or acidic.

EXCLUSION OF LIABILITY: PLEASE READ

To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Elliott Technologies Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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