



BIOLOGICAL PRODUCTS

Superzyme®

Bacillus subtilis, Pseudomonas putida, Trichoderma koningii & Trichoderma harzianum

Superzyme® is a multi-organism biological inoculum containing 2 beneficial bacteria and 2 beneficial fungal species that work synergistically, each presenting their own specific modes of action to multifunctionally crowd out pathogens and trigger a plant growth response - enhancing overall soil and plant health.

Because the soil is a living system occupied by billions of beneficial and antagonistic microorganisms – Superzyme® is an excellent means of re-introducing depleted or non-existent beneficial organisms in sufficient numbers to create more ideal growing conditions that push the favourable environmental balance in the host plants' favour. Superzyme® helps to appropriate the ratio of fungi to bacteria, which is required for typical plant functions.

The Superzyme® Advantage

Rapid colonisation is an attribute of the 'Dream Team' biologicals in Superzyme® as they compete with antagonistic plant pathogens, crowding them out.

- These organisms predominantly make a home at the root zone helping solubilise locked up nutrients such as Phosphorous and increase their mobilisation and metabolism efficiency.
- Organic matter decomposition by the biological agents in Superzyme® produce nutritional by-products of which, benefit plant growth and push towards making a more



CERTIFIED
ORGANIC



POWDER



ECO-FRIENDLY

Guaranteed Analysis

ACTIVE INGREDIENTS

Bacillus subtilis
Pseudomonas putida
Trichoderma koningii
Trichoderma harzianum

2 x 10⁹ colony forming units
(cfu) / gram of product

ideal growing environment for host plant.

- In R&D projects and studies, Superzyme® has exhibited the ability to enhance flowering either by shortening the days to flowering or by increasing the number of flowers. It also conveyed increasing flower survival rate after only a few days.
- Certified Organic.
- Superzyme® is all-in-one multifunctional, beneficial biological input – a sound biological investment and a sustainable asset to any strategy that can help reach maximum crop potential and increase yield.

Benefits

- Increases beneficial soil life around rhizosphere where it counts
- Crowds out pathogens
- Multi-modes of action working to stimulate and induce plant growth and overall health
- Improves seed germination
- Promotes abundant root proliferation
- Can increase flower numbers and improve flower survival rate
- Improves ability of plant to unlock nutrient reserves
- Improves growth, vigour and overall plant and soil health
- Biologicals have no re-entry limits, no harvest withholding periods and no MRLs
- Organic and safe to use



Available Pack Sizes

1 kg | 10 kg

Application Guidelines

Superzyme® can be used on most crops in agriculture as a foliar spray, seed soak, transplant drench or dip, side dress or for soil applications through the irrigation.

CROP	GENERAL SOIL APPLICATION RATES		GENERAL FOLIAR APPLICATION RATES	
	TIMING	RATE	TIMING	RATE
FRUITS				
ORCHARDS	Apply 1 month before flowering Repeat every 3-4 months	1kg/ha	Apply at 80% flowering Repeat if wet conditions persist close to harvest	1kg/ha
ALL BERRY CROPS	Apply before or at planting depending on the irrigation system Repeat every 4-6 weeks	1kg/ha	Apply at flowering Repeat every 10-15 days in wet conditions	1kg/ha
TROPICAL FRUITS: Banana, Mango, Jackfruit, Durian, Dragon fruit, Papaya, Pawpaw, Lychee etc.	Apply 1 month before flowering Repeat every 3-4 months	1kg/ha	Apply at 80% flowering Repeat if wet conditions persist close to harvest	1kg/ha
VINEYARDS: Wine grapes, Table grapes & Kiwifruit	Apply 1 month before flowering Repeat in wet conditions	1kg/ha	Apply at 80% flowering Repeat before bunch closure (grapes) Repeat in wet conditions as needed	1kg/ha
VEGETABLES				
BULB, ROOT AND TUBER VEGETABLES: Potato, Parsnip, Onion, Garlic, Ginger, Carrots, Beetroot & incl. Peanuts	Apply at or after planting depending on the irrigation system Repeat every 2 months	1kg/ha	i) Apply with first irrigation, & after sowing via sprinklers ii) Apply as a spray in wet conditions. Repeat as needed	1kg/ha
FRUITING VEGETABLES: Tomato, Caps, Chilli, Eggplants, Melons & Cucurbits	Apply at or after planting depending on the irrigation system	1kg/ha	Apply at first flowering & repeat in wet and humid conditions	1kg/ha
BRASSICA VEGETABLES	Apply at or after transplanting depending on the irrigation system Repeat every 4 weeks	1kg/ha	Apply with first irrigation through sprinklers after transplanting Repeat 3-4 weeks later	1kg/ha
ALL LEAFY VEGETABLES (incl. Brassica Leafy Vegetables)	Apply at or after planting depending on the irrigation system Repeat 3-4 weeks later	1kg/ha	i) Apply with first irrigation, & after sowing via sprinklers ii) Apply as a spray in wet conditions. Repeat as needed	1kg/ha
NUT TREE CROPS	Apply early October Repeat in February	1kg/ha	Apply at 80% flowering Repeat in wet conditions close to harvest	1kg/ha
OTHER				
ORNAMENTALS: Cut flowers & Tulips	Apply at or after planting through sprinklers Repeat every 2 months	1kg/ha	Apply as a spray onto plants every month & repeat in wet and humid conditions as needed	1kg/ha
POTTING MIX & POST-EMERGENCE SEEDLING TREATMENTS	Add Superzyme® directly to potting mix	50-100g /cubic meter (m³) of potting mix	Drench all seedlings with Superzyme® prior to planting Repeat as needed	2-3g/1L of water
GREENHOUSE CROPS	Apply with first irrigation after transplanting Repeat every 21-30 days	150g/400m²	Apply at first flowering as a spray Repeat every 3-4 wks In wet, hot, and humid conditions, repeat every 2 wks	100g/100L of water
CUTTINGS/GRAFTS	N/A	N/A	Spray directly onto cuttings & grafts to seal wounds before being placed in hot room	30-50g/3-5L of water
GENERAL INSTRUCTIONS	<ul style="list-style-type: none">Apply Superzyme® in Sprinkler & Pivot irrigations at 1-2kg/haDO NOT use Superzyme® through drippersFor optimal performance apply when temperatures exceed 18°CIf irrigation not available: Spray on top of soil followed by a rain. Repeat in wet conditionsSuperzyme® does NOT require activation if applied to soil		<ul style="list-style-type: none">Apply Superzyme® to foliage at 1kg/1000L water/ha when temperature is between 18-35°CApply at 80% flowering & repeat close to harvest in case of rain or if wet conditions persistFor optimal performance & efficacy: Activate by adding to clean water free from chlorine, for 3-4 hours prior to a foliar applicationWhen spraying Superzyme® DO NOT use pressures greater than 80 PSI	

For more information on application rates and timing relevant to your crop or circumstances please contact your local distributor or visit www.zadco.com.au

Disclaimer: Any rates of application and timing may vary and are subject to change according to crop variety, crop demand for nutrient/s, seasonal variations, and crop circumstance. Technical advice is provided to growers on the basis that the information supplied by the grower or agent is correct and that any technical support obtained from third parties (e.g. soil and leaf analysis results) is also correct at the time of preparation of the report. Zadco does not accept any liability whatsoever and howsoever arising from the use of the technical advice and the products used, should the information supplied to Zadco be incorrect or inaccurate. For warranty details, please refer to JH Biotech's warranty on the product label.

Compatibility

Superzyme® is compatible with most fertiliser solutions and biological preparations. It is recommended to add fertiliser solutions or other biological preparations to water PRIOR to adding Superzyme®, leaving it to add to the mixture last, then inject or spray. Do NOT combine with fungicides, soil fumigants, aqueous Ammonia, Phosphoric acid, Chlorine, or Sulphuric acid.

Product Handling & Storage

Superzyme® is stable under normal storage conditions. AVOID overheating or freezing, exposure to moisture, heat, and sunlight. Store in a cool, dry place.
Dispose of product/container in accordance with federal, state and local regulations.

www.zadco.com.au