

Info Sheet



Res+ is a residue management product for the enhanced breakdown of stubble, stalks, chaff and other degradable plant matter.

Res+ kick starts the microbial activity in the soil to give yield benefit to the newly planted crop.

Res+ is comprised of a residue degrading enzyme combined with a chelated nutrient package, which provides soluble nutrients that feed native microbes and fungi for optimal degradation. A humectant has been added to lock in moisture, speeding up the natural degradation of residue.

Res+ can be added to knockdown or pre-emergent herbicides prior to planting to start the breakdown of stubble and to trigger nutrient release. This provides a nutrient rich soil prior to planting.

Why use Res+?

- To aid in the breakdown of stubble as required in minimum and zero-tillage farming systems
- To improve soil health, organic matter and native microbial activity
- To improve nutrient availability from residue breakdown
- To improve crop and pasture establishment following application



Elemental Soil Enzymes

Think of them as factories for your soil, able to continuously produce the desired nutrient for a number of weeks.

About Us

Elemental Enzymes®, founded in 2011 and based in St Louis, USA is a life sciences company that creates novel enzyme, peptide and natural solutions that improve soil health, plant health, performance and yield. Our technology and product solutions are applied through seed treatment, foliar applications, tree injection, in-furrow soil treatments, fertiliser coating and fertigation.

Enzyme Definition

A protein produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction.

What We Do

All of our soil enzyme products perform chemical reactions with the same enzymes that are naturally secreted by plants and/or microbes to do the tasks we want them to do, i.e. degrade soil-borne complex molecules into smaller, easier absorbable/digestible molecules.

We just supply them readily, in a higher concentration and more widely distributed throughout the rhizosphere than what microbes and/or the plant root can achieve on their own.

Priming The Soil

Soil enzymes are applied with fertiliser at planting time.

Enzymes get to work immediately, quickly and continuously for a number of weeks creating their specific chemical reactions.

The enzymes release and make available nutrients in the area near the seed important to growth. The seed germinates into a rich area of nutrients resulting in better seed emergence and establishment.

KICKSTART YOUR SOIL HEALTH

RES+

Enzyme	Humectant	Product Offer
• Contains plant residue degrading enzyme - glycoside hydrolase • Creates entry points for native microbes to feed, kickstarting soil enzyme activity	• Locks in moisture on stubble and plant residues speeding up natural breakdown • Allows breakdown activity to occur under wider environmental conditions • Breaks residues down faster optimising soil health	• Liquid formulation • Delivered in optimised chelated nutrient package containing 5% nitrogen • Spray stubbles post harvest or prior to sowing on it's own or with herbicide or UAN



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DIRECTIONS FOR USE

- Store optimally at ambient temperature. Under these conditions, Res+ will be good for 24 months.
- Shake well before using.
- Add Res+ after all other inputs (fertiliser, herbicide, micronutrients, etc. have been added).

Application Timing:

For best results, apply to residue in the field as a spray solution before 0 to 4 weeks planting. Can also be applied post-harvest.

Application Method:

Liquid broadcast directly onto stubble.

Delivery Methods:

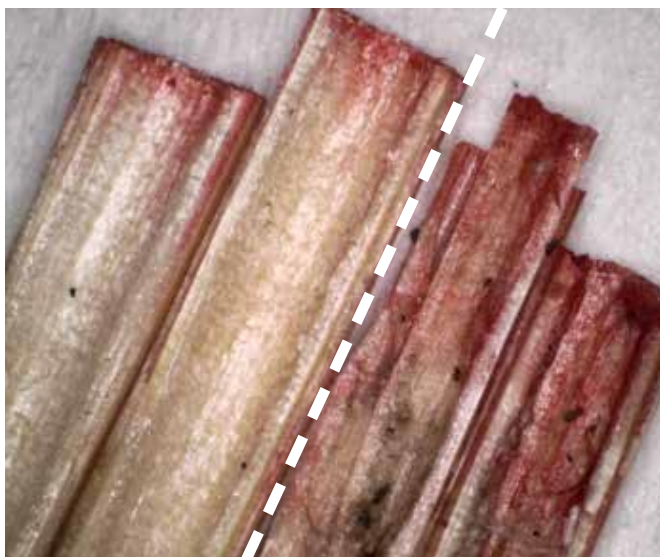
Broadcast application with preferred carrier; water or UAN. Can be mixed with pre-emergent or knockdown herbicides.

Rate: 1.2 L/ha

Compatibility:

Res+ is non-phytotoxic and compatible with many commonly used foliar treatments including insecticides, fungicides, micronutrients, zinc, bio-stimulants, fertilisers and herbicides.

Split untreated wheat stubble



MODE OF ACTION

Optimal Nutrient Blend for Feeding Residue Degrading Microbes

7 days after application

Split stubble, with Res+ treatment

Wheat stubble stained to show exposed cellulose (red) where microbes are able to access the carbon (lignin, cellulose). Note the increase in the red staining on the Res+ treated stubble. The red dye shows the actual degradation of cellulose caused by the enzyme. The enzyme creates more "entry points" for improved degradation of the stubble by microbes.

The information provided in this Info Sheet is an extract and does not constitute the full Directions for Use. PLEASE READ THE PRODUCT LABEL THOROUGHLY BEFORE USE.

Page 2 of 3