

# Superstrike<sup>®</sup> grass

**Superstrike<sup>®</sup> grass provides broad spectrum protection against three economically damaging insect pests and common soil-borne diseases during plant establishment. The Superstrike grass treatment now includes three important micronutrients in the formulation to help support early seedling growth.**

Superstrike seed treatment has been shown in trials to increase plant establishment and early plant growth in comparison to untreated seed. Superstrike promotes fast and vigorous seedling growth with plants showing strong tiller and root development during establishment. The boost to early seedling growth has been shown to occur in situations where plants are under pressure from an external factor such as insect pressure, and also in relatively stress-free growing environments.



	PLANT PROTECTION	BENEFITS
INSECTICIDE	<ul style="list-style-type: none"> <li>Argentine stem weevil (adults and larvae)</li> <li>Grass grub (larvae)</li> <li>Black beetle (adults)</li> </ul>	A systemic insecticide provides protection during the first six weeks post sowing. The chemical active-ingredient is taken up by the roots of the germinating seedling and translocated within the plant during early development.
FUNGICIDE	<ul style="list-style-type: none"> <li><i>Pythium</i></li> <li><i>Fusarium</i></li> </ul>	A contact fungicide protects seedlings from 'Damping Off' fungal pathogens during plant establishment. The fungicide forms a protective barrier around the germinating seedling, protecting the young root system from fungal attack.
NUTRIENTS	<ul style="list-style-type: none"> <li>Zinc</li> <li>Molybdenum</li> <li>Manganese</li> </ul>	The micronutrients are included in a liquid based polymer and distributed evenly around the seed through the seed treatment process. The seedling gets fast access to zinc, molybdenum and manganese as they are released into the soil following germination, helping boost early plant growth.
BIRD REPELLENT		The fungicide and colourant components in the seed treatment have properties that help deter birds from eating seed after planting.



Talk to your local seed supplier about Superstrike<sup>®</sup> grass or phone us on 0800 805 505.

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**Recommended Use:** Superstrike<sup>®</sup> grass seed treatment is recommended for all spring and autumn sown grass seed including ryegrass, fescue and cocksfoot where Argentine stem weevil, black beetle, grass grub or 'Damping Off' diseases are likely to have a detrimental effect on plant establishment. All ryegrass cultivars with novel endophyte should be Superstrike treated to protect the seedlings until the endophyte becomes functional within the plant. Because Superstrike promotes vigorous seedling growth, all grass seed 'under-sown' or 'stitched' into an existing pasture sward should be treated.

**Sowing Rate:** Superstrike is a filmcote seed treatment, therefore apply the same sowing rate as for untreated seed.

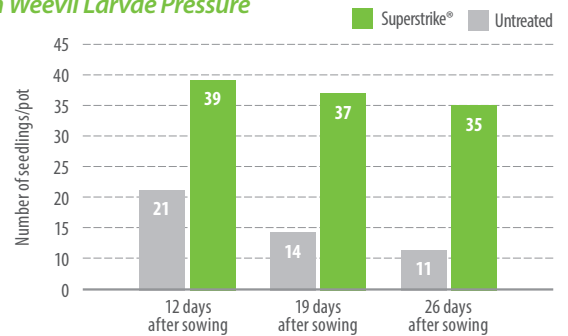
**Withholding Period:** Under full pasture renovation livestock should not graze Superstrike treated grass in the first six weeks after sowing. When Superstrike treated grass seed is 'undersown' or 'stitched' into an existing pasture sward, the withholding period is three weeks after sowing.



## Trial Data: Annual Ryegrass Establishment under Argentine Stem Weevil Larvae Pressure

This replicated trial measured the number of Superstrike<sup>®</sup> treated and untreated ryegrass seedlings establishing under Argentine stem weevil larvae pressure at 12, 19 and 26 days after sowing. The Superstrike treated seed showed a significant increase in plant establishment in comparison to untreated seed.

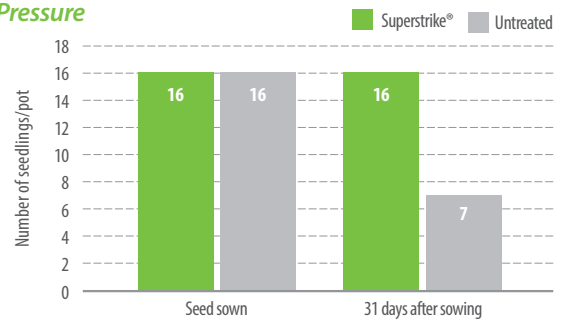
*(Trial conducted by AgResearch, Ruakura)*



## Perennial Ryegrass Establishment under Black Beetle Pressure

This replicated trial measured the effect of black beetle on the establishment of Superstrike<sup>®</sup> treated and untreated ryegrass seed. The Superstrike treated seed showed a significant increase in plant establishment in comparison to untreated seed at 31 days after sowing. 16 seeds were sown per pot.

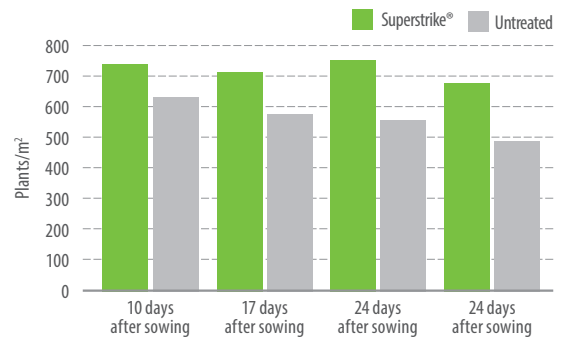
*(Trial conducted by AgResearch, Ruakura)*



## Perennial Ryegrass Establishment

This replicated field trial (sown under full cultivation) measured the plant establishment of Superstrike<sup>®</sup> treated and untreated perennial ryegrass at 10, 17, 24 and 30 days after sowing. The trial was established in Canterbury in April 2014 and demonstrated the benefit of seed treatment in a relatively stress-free environment.

*(Trial conducted by Lincoln University)*



## Short Rotation Ryegrass Dry Matter Production

This replicated field trial (sown under full cultivation) measured the dry matter production of Superstrike<sup>®</sup> treated and untreated short rotation ryegrass at 55 and 80 days after sowing. The Superstrike treated seed showed a significant increase in accumulative yield over the two cuts in comparison to the untreated seed. The trial was established in Canterbury in March 2016 and demonstrated the benefit of seed treatment in a relatively stress-free environment.

*(Trial conducted by Kimihia Research Centre)*

