

# Managing pests organically

## ABRADE – THE NON-TOXIC SOLUTION FOR PEST CONTROL

**G**row Choice P/L and Ausmin Australia P/L are offering Abrade, a next generation tri-functional product for the maintenance of plant health:

- Control Insect pests
- Control Diseases
- Provide Silicon Nutrition

Former Queensland Reds captain and Wallaby flanker, Jules Guerassimoff has transferred his side stepping abilities on the Rugby field to the fields of Cropping - he has invented and developed a novel, non-toxic pest control product which sidesteps the hazards and other problems associated with most conventional chemistry.

ABRADE Abrasive Barrier Insecticide/Fungicide is a natural, Certified Organic product made from Amorphous Silica which is milled to microfine particles and formulated into a Suspension Concentrate which, when applied to crops, utilises a Physical Mode of Action of cutting, abrasion and dehydration of pests instead of poisoning.

The Technology has Patents issued in Australia, New Zealand, South Africa and the United States with applications being processed in many other countries in the world. Abrade has APVMA registration in Australia for Grain Storage, Cotton, Sweet Corn, Capsicums, Canola and Brassica Vegetables against an array of insect pests. Recent trials in Cucurbit crops have revealed that the Physical Mode of Action of Abrade also works on Fungal Organisms (Powdery Mildew) and this will be the next registration for the product.

### Field results with Abrade

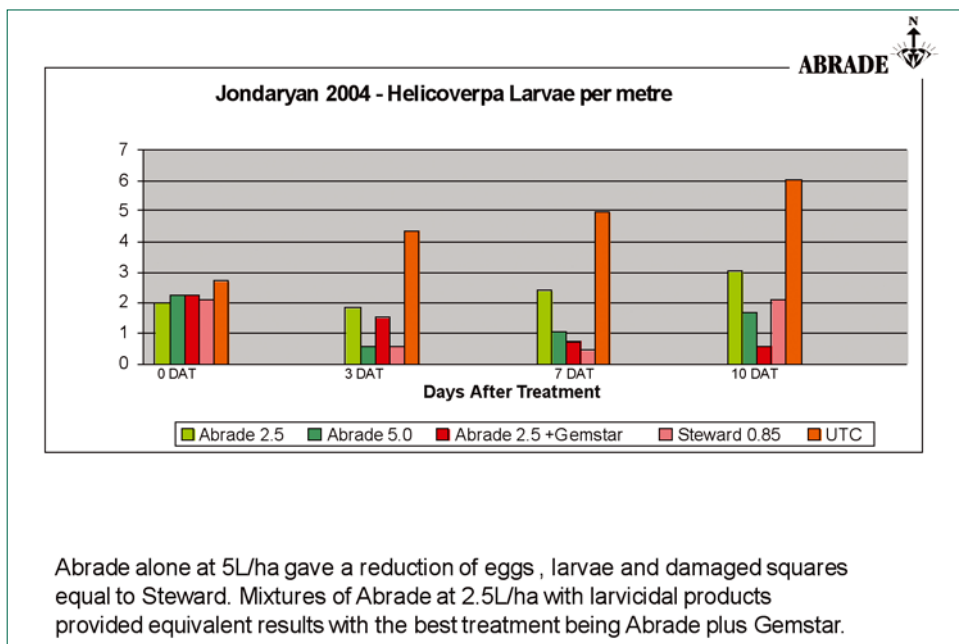
The graphs on the right outline the performance of Abrade in a Cotton trial on the Darling Downs and in a Capsicum trial in Bowen

Abrade alone at 5L/ha reduced Helicoverpa populations equal to Vivus. Abrade at 2.5L/ha + Vivus at 250ml/ha proved equal to the standard Success.

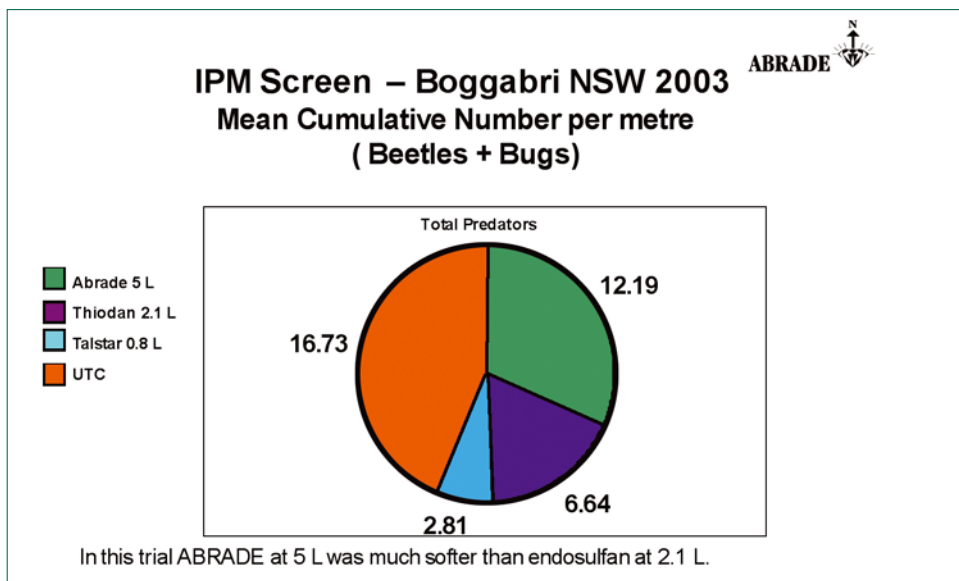
The extensive studies undertaken show that Abrade activity is optimal on eggs and early hatchlings of insect pests and spores and developing mycelium of fungal organisms. Advanced stages of all pests are not as susceptible to damage

### Safety to beneficials

Most insecticides lack selectivity, equally affecting predators and pests. Abrade has proven to be softer and less harmful to beneficial predators than conventional chemicals. This could give it a priority over current products in Integrated Pest Management Programs. The following Graph demonstrates this softer activity of Abrade against Beneficials.



Abrade alone at 5L/ha gave a reduction of eggs, larvae and damaged squares equal to Steward. Mixtures of Abrade at 2.5L/ha with larvicidal products provided equivalent results with the best treatment being Abrade plus Gemstar.



In this trial ABRADE at 5 L was much softer than endosulfan at 2.1 L.

Abrade is applied through water diluted sprays like conventional pest control products. However, due to the hardness of Amorphous Silica Abrade applications should utilise ceramic nozzles or micronair equipment - avoid brass and plastic nozzles. Higher spraying pressures also will enhance the cutting/abrasion action of spray particles during application. No damage or other effects have been noted on crops or fruit and vegetables sprayed with Abrade.

### Abrade heralds a New Era in Pest Management:

- Natural
- Non Chemical
- Non Toxic
- No MRL nor WHP restrictions
- Physical Mode of Action instead of Poisoning
- Safe to Beneficial Insects
- Safe to the Environment
- Suited to IPM Programs

**For more information contact Jules Guerassimoff on 0428 775 143 or Bob Fagan on 0428 924 545**