Dusting a Harvester using a Blovac BV22 Venturi Gun.

In order to achieve an even coating on vertical surfaces, dust should be blown through top hatches of vertical silos. For horizontal stores and warehouses, apply from top to bottom, starting with roof structures. The operator should wear a disposable dust mask when applying dust inside stores or buildings.

...and by Water-based Slurry...

This method of application has received a high level of acceptance in the Australian grain industry due to its cleanliness, speed of treatment and excellent control of application rates. Applications details and equipment recommendations are available on request.

New Dryacide developments...in fumigated grain stores

Dryacide dust coatings of 100 g/m² (2 lbs/100ft²) on the surface of bulk-stored grain has proven to be an important component of controlled fumigation systems. The dust coating not only provides a barrier to insect infestation, it also maintains higher fumigant concentrations in the critical surface layer of grain. The small added dust component has no adverse effects on grain quality and is accepted by Bulk Grain Handling Authorities.

...in aerated grain stores

A related application is also used in Australia. Grain-surface treatment with Dryacide at the same 100 g/m² rate improves insect control in bulk aerated grain stores.

Constraints on the product's use...

As the insecticidal activity of the product lies in its drying properties, very high ambient humidities reduce the effectiveness of the product. This is not significant when the periods of high humidity are seasonal only, eg. a wet winter season, however if high ambient humidities (exceeding 65% RH) prevail throughout the year, the product should be tested in that situation prior to regular use.

For the same reason, treatment of damp food commodities should be avoided. Typical maximum moisture contents recommended for long-term storage protection are; winter cereals (wheat, barley and oats) 12%, sorghum 13% and paddy rice 14%.

The end-user should also be aware that the dust coating on grain or other commodity reduces the flow rate through handling equipment and increases the angle of repose and bulk volume. These are not significant factors in small storages but do require attention in bulk storages and it is for these reasons that Dryacide-treated grain is not accepted by Australian Bulk Grain Handling Authorities.

CONDITIONS OF SUPPLY

Dryacide is manufactured with a high degree of quality control and each batch is individually tested against stored product pests to ensure its efficacy. However, as we have no control over the storage, handling, mixing or use of Dryacide, no responsibility will be accepted by us or resellers for any failure in performance, damage, or injury arising from storage, handling, application or use.

Entosol

Manufactured & Distributed by Entosol Australia Pty Limited

DRYACIDE

An inert mineral dust for insect pest control that's effective, economical, long-term and environmentally safe.

Dryacide Applications?

Dryacide controls all stored grain insect pests including weevils, beetles, borers and moths. It provides 12 months control of insect pests in…

- *Stored products such as wheat, barley, rice, sorghum, maize, lentils, peas and other food commodities.*
- *Warehouses and Stores used for storing food products.*
- *Machinery and Equipment used in products handling such as conveyors, bucket elevators and empty silos.*

Dryacide can also be used in Integrated Pest Management programs for the control of:

- *Ants, moths, poisonous spiders and insect pests found in industrial, commercial or domestic situations.*

Who can benefit from using Dryacide?

- *Large Industrial and Government Organizations handling food commodities.*
- *Farmers, Small Cooperatives, Importers and Exporters storing food commodities and feed or seed grain.*
- *Flour Mills and Bakeries storing their own grain.*
- *Stockfeed Producers and Food Processors.*
- *Maltsters and Brewers.*
- *Poultry, Sheep and Pig Farmers and Stock Producers.*

Dryacide is…Safe for the Environment.

Dryacide is a harmless, amorphous silica powder, exempt from Poisons Scheduling, that absorbs the wax on insects. Without their wax coating, insects quickly dry out and die. This non chemical approach to insect control confers major benefits:

…No Residue

Treated commodities remain chemical and residue free. This is an important issue for Organic Growers, Exporters and other producers of residue-free food products.

DRYACIDE

…Superior Cost/ Performance

Whether used for stored commodity protection or structural treatment of warehouses and food stores, Dryacide provides very long-term protection, (at least 1 year). This is because the product works by a physical absorption process and does not contain chemicals which can break-down or deteriorate. Unlike chemical insecticides, it is totally unaffected by high or low temperatures, yet the product costs no more than conventional chemical treatments.

…Additional benefits include:

- *100 percent effectiveness against all insect species. Even species resistant to chemical insecticides,*
- *treated grain or other food commodity has no withholding period and can be used any time after treatment.*
- *complete protection in normal, vented silos and horizontal stores subject to repeated infestation pressure. Sealed storage facilities are not required.*

And you can be sure it works because…

…CSIRO Tested.
…Used by Bulk Grain Authorities throughout Australia

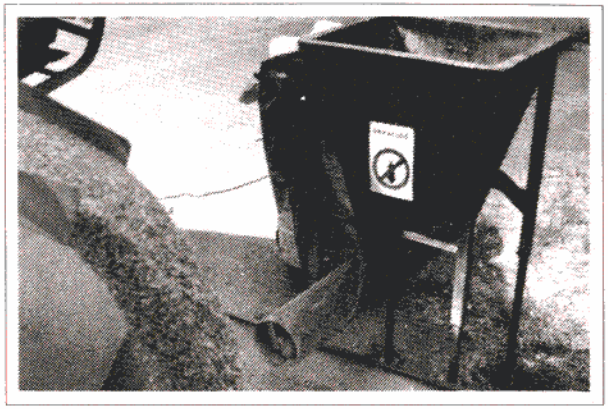
The Australian Commonwealth Scientific and Industrial Research Organization (CSIRO) is one of the world's leading research organizations. Much of the basic research and many field trials on Dryacide have been conducted or supervised by this Organization. They have confirmed its effectiveness. Bulk Grain Handling Authorities throughout Australia have adopted Dryacide for the structural treatment of their handling, transport and storage facilities.

And cost?

When treating food commodities such as wheat, rice, maize and pulses, Dryacide treatment at 1kg/tonne costs no more than those of chemical insecticide treatments.

As a structural treatment, considerable cost savings are achieved. With a dust application rate of 2g/m², the treatment cost is only about 8% of that of chemical sprays. When applied as a water-based slurry at 6g/m² (dry basis), the cost is still only a quarter of the cost of chemicals.

Treating grain using a Dryacide Applicator Mark II



Treatment of Stored Grain…

Complete and long-term protection is obtained with a treatment rate of 1kg Dryacide/tonne of grain. Any powder dosing appliance can be used. The dust is added into a moving stream of the grain at a steady rate to ensure uniform distribution. Typical dosing points are auger hopper, belt conveyors and bucket elevators. An Applicator made by Dryacide Australia and powered by a 12 volt dc battery is illustrated above. The Applicator is calibrated to dose a moving grain stream at product transfer rates of between 5 to 50 tonnes/hour. Small quantities of grain can be treated by hand. As an example; sprinkle 50gm of Dryacide over 50kg heap of grain, turn over the entire heap three times with a spade working from one side to the other. Then Bag-off and store under cover in a dry place.

…and Structural Treatment…by Dust…

Dryacide requires an air stream to move it onto surfaces and into crevices. For economy and efficiency, we recommend bellows-type dusters however any garden duster can be used. When applying dust to large grain stores, food warehouses or grain handling machinery, venturi blowers, such as the Blovac BV22 unit illustrated, provide the best solution. These compressed air powered units can also be used to blow, or vacuum away grain debris from equipment and grain stores prior to treatment. Two-stroke, back-pack dusters can also be employed.