

## Pest Control in Empty Grain Stores with *Silico-Sec*

It is time to think about treating empty grain stores – well before harvest.

- It takes around 5 weeks to achieve good grains store hygiene, especially after last harvest and the problems of subsequent storage.
- Structures which are used to store grain will still house pests even when empty. These pests will readily infest new parcels of grain placed into the store.
- Cleaning and treating empty grain stores for these pests is an essential process to protect new grains from infestation.
- Pests will lodge in the smallest of places such as cracks, crevices, corners, as well as airways, ducts, intake pits, elevators, grain handling equipment, underfloor ventilation ducts, rafters etc.

### Summary

Empty grain stores should be treated now with *Silico-Sec* to get long lasting control and protection against all major UK grain store insect and mite pests including pesticide resistant populations. It can be applied using a Venturi Applicator.

*Silico-Sec* can be used for the prevention and cure of insects and mites commonly found in grain stores, including :-

Mites	Insects
Flour mite <i>Acarus siro</i> , Cosmopolitan food mite <i>Lepidoglyphus destructor</i> .	Saw tooth grain beetle <i>Oryzaephilus surinamensis</i> , Grain Weevil/Rice Weevil <i>Sitophilus granarius</i> , Rust-red flour beetle <i>Tribolium castaneum</i> , larvae of cosmopolitan flour moth <i>Ephestia kuehniella</i>

### The Product

*Silico-Sec* is a >90% inert silica diatomaceous earth derived by a special process, and consists of highly micronised specific amorphous silica (silicon dioxide) which is highly absorbent due to its biophysical properties. It was developed in conjunction with work done by the Central Science Laboratory, sponsored by HGCA, for the control of a range of grain store invertebrate pests.

### Mode of Action

On contact with the product, *Silico-Sec* damages the external wax layers of target pests resulting in desiccation and eventual death. Owing to its special mode of action, *Silico-Sec* is also effective against pesticide-resistant mite populations in the recommended target group.

### Fabric Treatment of Grain Stores. Timing

All grain store hygiene activity should be completed 5 weeks before harvest to allow the hygiene processes plenty of time to become effective. Clean the empty store of all residual material, debris and dust, paying attention to likely places where pests can harbour. Apply *Silico-Sec* to walls, floors, equipment, ventilation ducts, intake pits and other surfaces, especially corners and crevices. After treatment leave the *Silico-Sec* in place. *Silico-Sec* is also recommended for grain treatment on conventional and organic cereals and oilseed rape.

### Rate of Use for fabric treatment

Apply *Silico-Sec* as a dry dust evenly over all surfaces at the rate of 10 grams per square metre.

*Silico-Sec* can be applied as a dust through a specially developed Venturi Applicator



### HEALTH AND SAFETY

*Silico-Sec* is non-hazardous BUT because of its very fine particles, it will create a very dusty environment. Operators and anyone exposed to *Silico-Sec* during application should wear suitable protection for face, eyes and breathing guards. Overall protection to clothing is also advised.

For further information please ring Interfarm on 01354 741414  
or email [technical@interfarm.co.uk](mailto:technical@interfarm.co.uk) website [www.interfarm.co.uk](http://www.interfarm.co.uk)

**Read the label before use. Use Pesticides safely**

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