



SilicoSec[®]

Highly effective insecticide for the control of insects and mites in stored grain and empty storage rooms

SilicoSec[®]

Active substance: 1000 g/kg Diatomaceous Earth

SilicoSec[®] controls insects and mites in empty storage rooms and protects grain – preventive and curative.

It consists 100 % of Diatomaceous earth, a natural mineral extracted from the microscopic shells of fossilized sweetwater diatoms.

Mode of action

SilicoSec[®] is a fine almost white powder with a strong dehydrating impact on insects and mites. Once the insects come into contact with the product, they dust themselves and die within short time from desiccation. Up to now, no resistances have been identified.

As there is no degradation of the active substance SilicoSec[®] does not lose its efficacy in dry stored grain and storage rooms.





- ✓ High efficiency
- ✓ No residues
- ✓ No resistances
- ✓ Effective long-term protection
- ✓ Approved for organic agriculture



SilicoSec® – Application

Use in grain

Application rate: preventive: 1 kg / t
curative: 2 kg / t

SilicoSec® has to be added evenly to the grain to receive a homogeneous mix. Therefore it is optimal to add it by hand or applicator to the moving grain stream transported by auger, elevator or conveyor. SilicoSec® has a particle size between 2–18 mikrons. Therefore pneumatic transport facilities are not suitable for the mixing process or the transport of grain mixed with SilicoSec®.



Use in storage rooms

Application rate: 10 g/qm

For good protection and effective control of insects in empty storage rooms, all places including transport facilities have to be cleaned carefully. After the cleaning process SilicoSec® is applied by hand duster or blast gun. Walls, ceiling, ground, especially cracks and crevices have to be dusted carefully and coated with a fine white film. This treatment has to be done at least 14 days before storage of new goods.



SilicoSec® – Facts

Trial results

Weeks after release	T	rh	% Mortality <i>Sitophilus granarius</i>	% Mortality <i>Oryzaephilus surinamensis</i>
Trial 1				
1	17,2	78	73 (56-86)	100
2	17,3	79	100 (98-100)	100
3	19,3	80	100	100
Trial 2				
1	7,3	90	2 (0-6)	24 (0-62)
2	7,4	84	66 (53-82)	100
3	9,0	83	99 (94-100)	100
4	9,0	89	100	100

→ **100 % Mortality:** *Sitophilus granarius* after 3-4 weeks
Oryzaephilus surinamensis after 1-2 weeks

Important details

To receive good efficacy SilicoSec® should only be applied to grain with maximum 14,5 % grain humidity. The treatment with SilicoSec® changes the colour of the grain to greyish without affecting colour, quality or baking characteristics of the flour.



Untreated




Treated with
SilicoSec®

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