

ALL-ROUNDER

Introducing Resposar® 2.5

The product is a water-based suspension concentrate containing the active ingredient beta-cyfluthrin.

Beta-cyfluthrin is produced from the well-known active ingredient cyfluthrin. Of the four isomers in the compound, the two which are most biologically active have been isolated, and concentrated, to create beta-cyfluthrin, which is twice as effective as cyfluthrin. As an alpha-cyano-pyrethroid, beta-cyfluthrin has an extremely broad spectrum of activity against a wide range of pests.

The Main Benefit: Lower Dosage

Under normal conditions, the recommended dose of Resposar 2.5 is 7.5 mg a.i./m². That is 40% less than required with Resposar SC 125.

Laboratory trials for residual efficacy on common surfaces such as glazed and unglazed tiles showed that, used as directed at the reduced application rate, Resposar 2.5 demonstrated the same residual effectiveness at almost half the active ingredient as Resposar SC 125.

Broad Control – Fewer Pests

Resposar 2.5 affects a wide range of different pests. International field and lab trials show that the product controls the following groups of pests:

Cockroaches

Fleas

Flies

Mosquitoes

Ticks

Silverfish

Crickets

Ants

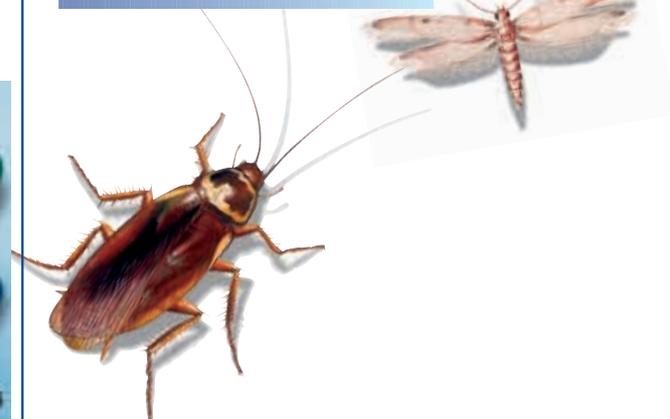
Stored product and materials pests



Reduced Application Rate of Resposar® 2.5

on common surfaces (tiles, plywood) against *Blattella germanica*

100% Mortality within 24 h



Responsar[®] 2.5 Your plus points at a glance

Innovative formulation technology	> ensures high efficacy from now on
Longer residual efficacy – even on difficult surfaces	> improves your credibility through reduced call-backs
Prolonged intervals of application	> greater customer satisfaction
Lower application rate	> saves costs and demonstrates your environmental awareness
Improved toxicology	> boosts the customer's confidence in you
No stains, no odor	> immediate advantage for your customer
Non-flammable	> safer handling and storage
Easy-to-use measurement	> makes dosage simpler > no spillage
The new all-rounder	> your triumph over the main types of pests



Responsar[®] 2.5

Controls the main types of pests

 The new high-performance
SC formulation.

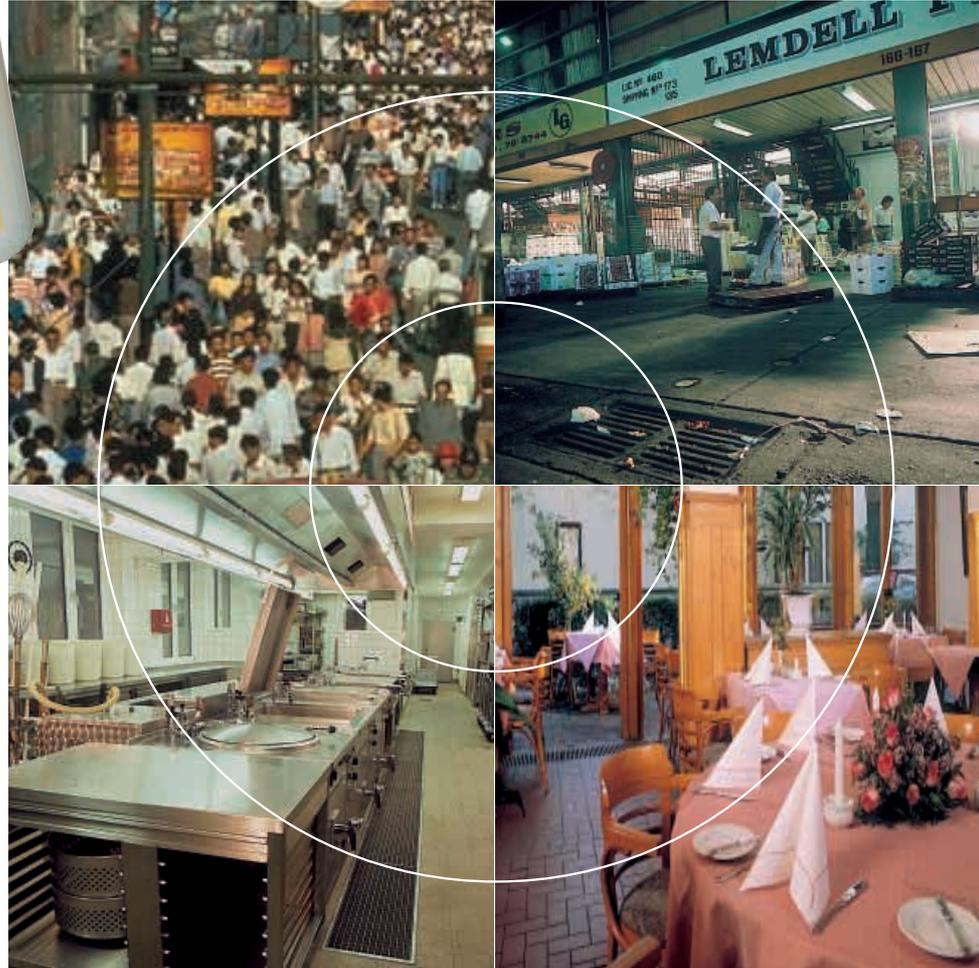
Bayer 



THE NEW

What's New? The Chemical Answer To Your Problems

Pests are nearly everywhere – in urban areas such as private residences, as well as commercial and industrial enterprises such as food processing plants, restaurants, warehouses, offices, public facilities, etc. But cockroaches and flies are not the only troublemakers. Generally, if you find these pests, you may also find ants, fleas, silverfish, mosquitoes, moths, and other stored product and material pests.



Now there's a product that can help: Responsar 2.5, the latest innovation from Bayer, which controls a wide range of pests in just one application. This formulation features completely new technology. It has a specific mineral structure with a defined particle size as an inert carrier.

The microparticles, ranging from 10 to 20 μm in diameter, are much larger than the particles of active ingredient in older SC formulations without inert carriers. This enlarged particle size translates into better performance on rough and absorbent surfaces, while less active ingredient is required to give the product longer residual activity.



FORMULATION

Greater Long-Term Effect

Various indoor and outdoor efficacy trials confirm that the re-sidual activity of Resposar 2.5 is outstanding. Compared to different suspension concen-trates on the mar-ket, which demonstrated good results on difficult surfaces (PVC) for a shorter time, the new Resposar 2.5 exhibits the strengths of its state-of-the-art carrier particle/active ingre-dient combination.

Even at an application rate of 6.25 mg/m², Resposar 2.5 continued to control cock-roaches four times longer than the comparative products applied at the recommended dosages.

That means with the new Resposar 2.5 formulation you can expect significantly longer residual activity than with the other products tested.

Improved Toxicological Properties

In addition to the benefits of enhanced product performance, we have also succeeded in improving the toxicological profile of the product due to the lower content of active ingredient.

Based on experimental animal studies, Resposar 2.5 features:

- ▶ acute oral toxicity of >2,500 mg/kg (LD 50 rats)
- ▶ acute dermal toxicity of >4,000 mg/kg (LD 50 rats)
- ▶ non-irritating to skin (rabbit)
- ▶ non-irritating to eyes (rabbit)
- ▶ no sensitivity potential

No toxicity declaration or labelling is necessary to comply with EU directives.

Residual Efficacy of Resposar® 2.5

in comparison to other formulations on PVC against *Blattella germanica*

100% Mortality within 24 h

Resposar 2.5 6.25 mg ai/m²

Alpha-Cypermethrin 15 mg ai/m²

Deltamethrin 15 mg ai/m²

0 2 4 6 8
weeks

Responsar[®] 2.5

Professional Application

In order to ensure successful pest control, follow the guidelines below.

For general pest control against crawling insects such as cockroaches, silverfish, fleas, etc. and flying pests such as flies and mosquitoes, apply a 0.6% solution (60 ml/10 l water) at 50 ml/m². A higher application rate may be necessary to increase residual performance under certain circumstances, as with other residual insecticide sprays.

Dosage and application rate of Responsar 2.5

Package size	1 litre bottle
Active ingredient content	25 g/litre
Dosage	60 ml/10 l water equals 200 m ²
Active ingredient mg/m ²	7.5
Treated area	3,333 m ² /bottle

Cockroaches

Although generally, one application will suffice to control German cockroaches, Oriental and American cockroaches usually require two treatments four to six weeks apart.

Wherever possible, the spray should be applied in cracks and crevices away from areas that are frequently cleaned with water, for example, in food hygiene areas.

In any case, residual spraying should be allowed to take effect for at least 24 hours.

In an integrated pest management approach, in addition to spray treatments with Responsar 2.5, baiting techniques with Premise[®] Cockroach Bait can be used under specific conditions.

Ants

Spray the tracks of ants that find their way into buildings. It may also be advisable to treat outdoor areas (perimeter treatment) in order to prevent additional ant workers from entering the facility. Treat nests where they can be found.

Fleas

Controlling flea infestations requires treatment of the area surrounding the animal's preferred resting spots. Overall application may be necessary in extreme cases.

Responsar 2.5 can also be combined with a larvicide such as Starycide[®].

Flying insects

Careful treatment is called for in areas often frequented by flying insects such as window and door frames, rafters, walls, etc.