Reduced Application Rate of Responsar® 2.5
on common surfaces (tiles, plywood) against Blattella germanica

100% Mortality within 24 h

Responsar 2.5 7.5 mg ai/m²

Responsar SC 125 12.5 mg ai/m²

Introducing Responsar® 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 Responsar 2.5 is 7.5 mg a.i./m². That is 40% less than required with Responsar 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, Responsar 2.5 demonstrated the same residual effectiveness at almost half the active ingredient as Responsar SC 125.

Broad Control – Fewer Pests

Responsar 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
## Your plus points at a glance

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

Responsar® 2.5
Controls the main types of pests
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 form 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.
**Greater Long-Term Effect**

Various indoor and outdoor efficacy trials confirm that the residual activity of Responsar 2.5 is outstanding. Compared to different suspension concentrates on the market, which demonstrated good results on difficult surfaces (PVC) for a shorter time, the new Responsar 2.5 exhibits the strengths of its state-of-the-art carrier particle/active ingredient combination.

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

That means with the new Responsar 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, Responsar 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.

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**Residual Efficacy of Responsar® 2.5**

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

100% Mortality within 24 h

Responsar 2.5  6.25 mg ai/m²

Alpha-Cypermethrin  15 mg ai/m²

Deltamethrin  15 mg ai/m²
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.

### 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.