

FAQ on Suspend Flexx

1. What is Suspend Flexx?

A general insect control liquid concentrate with Solid Particle Technology and the active ingredient, Deltamethrin, designed to be effective on harsh, absorbent surfaces by increasing bioavailability of the active ingredient.

2. How does Solid Particle Technology improve performance?

The larger solid particles reduce active ingredient loss into cracks and porous surfaces, enhancing insecticide performance on complex surfaces like concrete.

3. Is there more active ingredient due to larger particles?

No, larger particles do not mean higher concentration. Solid Particle Technology uses lesser active ingredients but achieves similar efficacy.

4. Is Suspend Flexx a repellent?

No, Suspend Flexx is not repellent. There are many definitions towards repellency, and one is there is a wide belief that pests will not walk on/across pyrethroid-treated surfaces. However, repellency would depend a lot on volatility of the active ingredient instead. The active of Suspend Flexx is deltamethrin, which is a low volatility pyrethroid, which neither spatially repelled nor increased spontaneous electrical activity when used in the right dose. In our studies (whether its lab or field), we found that pest will still walk over treated across Suspend Flexx treated surfaces and were knockdown and eradicated after.

5. Is Suspend Flexx safe for children and pets?

Yes, when applied according to label instructions, it is safe and poses a minimal risk to the environment.

6. Can Suspend Flexx be washed off after application?

Yes, heavy cleaning or rain can wash it off. For longer residual life, delay washing treated areas.

7. Does Suspend Flexx stain surfaces?

It does not stain most surfaces, though caution is advised on dark or shiny materials.



8. Why was deltamethrin chosen despite resistance concerns?

Deltamethrin remains a trusted pest control solution, effective even on rough, absorbent surfaces for up to 90 days (about 3 months). Resistance issues can be managed by alternating with different modes of action (MoA) insecticides or a mixture (e.g. Temprid).

9. What is the dose for Suspend Flexx?

High rate: 10ml/L Standard rate: 5ml/L Maintenance rate: 2.5ml/L

10. What pests are listed on the Suspend Flexx label? Ant, Cockroaches and Flies

11. Does Suspend Flexx have any certifications?

Yes. HACCP for food safety.

12. What insecticide class of product is Suspend Flexx? Class III

13. What are the recommendations for using Suspend Flexx?

- High rate: Ideal for tough conditions like high pest pressure or challenging surfaces
- Standard rate: Recommended for initial cleanout of pests such as cockroaches, ants, flies
- Maintenance rate: Best for ongoing maintenance after initial pest control treatments

14. How to use Suspend Flexx?

Before use always read the label and product information first upon the product

15. How does Solid Particle Technology function to help the insecticide perform better? The residual effect should be the same with or without Solid Particle Technology.

The performance or effectiveness of an insecticide so often depends on the active ingredient (e.g. half-life, lethal dosage, etc.) but the performance of the insecticide is also dependent on other factors such as formulation technology, the environment (physical conditions such temperature, humidity, wind, etc; architecture; structure; surfaces; type of crops or commodities; safety or technological constraints), the pest, the applicator and the application technology.

For Suspend Flexx, the new formulation technology reduces degradation from different surfaces containing alkaline material such as concrete that would otherwise speed up the breakdown of the active ingredient.

In addition, the deltamethrin crystals are incorporated into larger solid particles (associated with an inert carrier material), which is 10 times larger than traditional formulations (e.g. Suspension Concentrate (SC)) and prevents the loss of active ingredient into micro chasms, spaces, or gaps.



Solid Particle allows the active ingredient to 'stand-up' on complex surfaces and increase the bioavailability for the target pest.

16. Will the use of this new formulation technology encourage higher insecticide resistance from future generations of target pests?

The solid particle technology in Suspend Flexx does not promote insecticide resistance, as it functions to increase the bioavailability or provide optimum contact between the active ingredient and the pest insect.

Insecticide resistance only occurs when single mode of action (MoA) active ingredients is used frequently without an insecticide rotation strategy. It becomes a problem when the insects carrying the resistance mutation survive the insecticide application and become more frequent in the population (e.g. resistant individuals would survive and then go on to reproduce).

Therefore, it is important to ensure there is an insecticide rotation strategy (with different classes of insecticide and different MoA or with insecticide mixture), in which a different MoA will eliminate the resistant population. This method delays the resistant insects from increasing in frequency.

17. Is Suspend Flexx a repellant product? If yes, how do we deal with ants budding? No, Suspend Flexx is not repellent.

When it comes to ant control, Suspend Flexx works by giving a perimeter protection and directly eliminating ants in contact quickly. Suspend Flexx can also be used as a spot treatment if the nest of the ants is found. Because Suspend Flexx shows fast knockdown and mortality, spot treatment against the ant nest will ensure colony elimination. (note: ensure the dilution rate and application rate is sufficient and according to label recommendations for colony elimination)

Such rapid knockdown is useful in ensuring all the ants that in contact with treated surfaces are eradicated switfly, then there is no further concern whether there would be any impact to the ant colony since those ants in contact with Suspend Flexx would have been eliminated completely.

18. If a pest is resistant to deltamethrin, will different formulation matter?

It is important to determine if the population is resistant to deltamethrin and to the other members of the pyrethroid group. If there is resistance, switch to an insecticide with a different MoA (different insecticide class) or a mixture product (e.g. Temprid) to manage the resistant population.

19. Can Suspend Flexx be used in a ULV misting machine?

We strongly suggest only using it with a compression sprayer. Suspend Flexx is approved only to be applied with a compression sprayer.

20. Is the product easy to wash away after spraying outdoors?

Like all products, Suspend Flexx will be washed away if it undergoes heavy cleaning or exposed to rain.



21. Why was the active ingredient deltamethrin selected for Suspend Flexx, when there are so many papers on insecticide resistance towards this active ingredient?

Deltamethrin still remains a trusted active ingredient in the Envu portfolio and the pest control market globally as it has helped protect people from vector-borne diseases and protected food supplies from pest infestations, over the years (e.g., may refer to other publications that has shown the benefits of deltamethrin).

If a particular population is shown or proven to be resistant to deltamethrin, then the population could also be resistant to other members of the pyrethroid family. Therefore, it is encouraged to switch to an insecticide with a different MoA (different insecticide class) or a mixture product (e.g. Temprid) to manage the resistant population.

However, publications on insecticide resistance towards a certain insect population may not mean it applies to all situations globally or in the region. There are still insect populations that are susceptible to Deltamethrin, and the active ingredient is useful to manage the insect pest population. Our (Envu) portfolio is adapted to different situations, as we also have a resistant management solution portfolio (e.g. Temprid) to manage situations with insecticide resistance.

22. For application on expose places, will there be any effect due to weather? After applying the product, what is the time gap before washing?

Like all products, Suspend Flexx will be washed away if it undergoes heavy cleaning or exposed to rain.

Regarding after application, if the situation requires for a residual control, it is better to delay the washing process to prolong the residual life of Suspend Flexx.

23. Should Suspend Flexx be applied before gel baits or does it not matter?

It would depend on where the application is done. However, it is advisable to not apply Suspend Flexx at the same surface with the gel baits. For Suspend Flexx, like all residual insecticides, it should not be applied on the where the gel bait was applied to prevent disruption to the gel bait formulation.

24. Can Suspend Flexx be sprayed on plants or cause burning on plants?

Yes, Suspend Flexx can be applied on plants. However, avoid applying the product on vegetables and on fruits. Do take note of the label recommendations before application.

Suspend Flexx does not cause any phytotoxic properties towards plants.

25. Will Suspend Flexx formulation clog my sprayer?

Suspend Flexx does not clog the sprayer, however we strongly recommend agitating the sprayer after leaving it for long. The formulation will dissipate to the bottom of the surface of the sprayer. Hence the agitation process can help to mix the solution again.