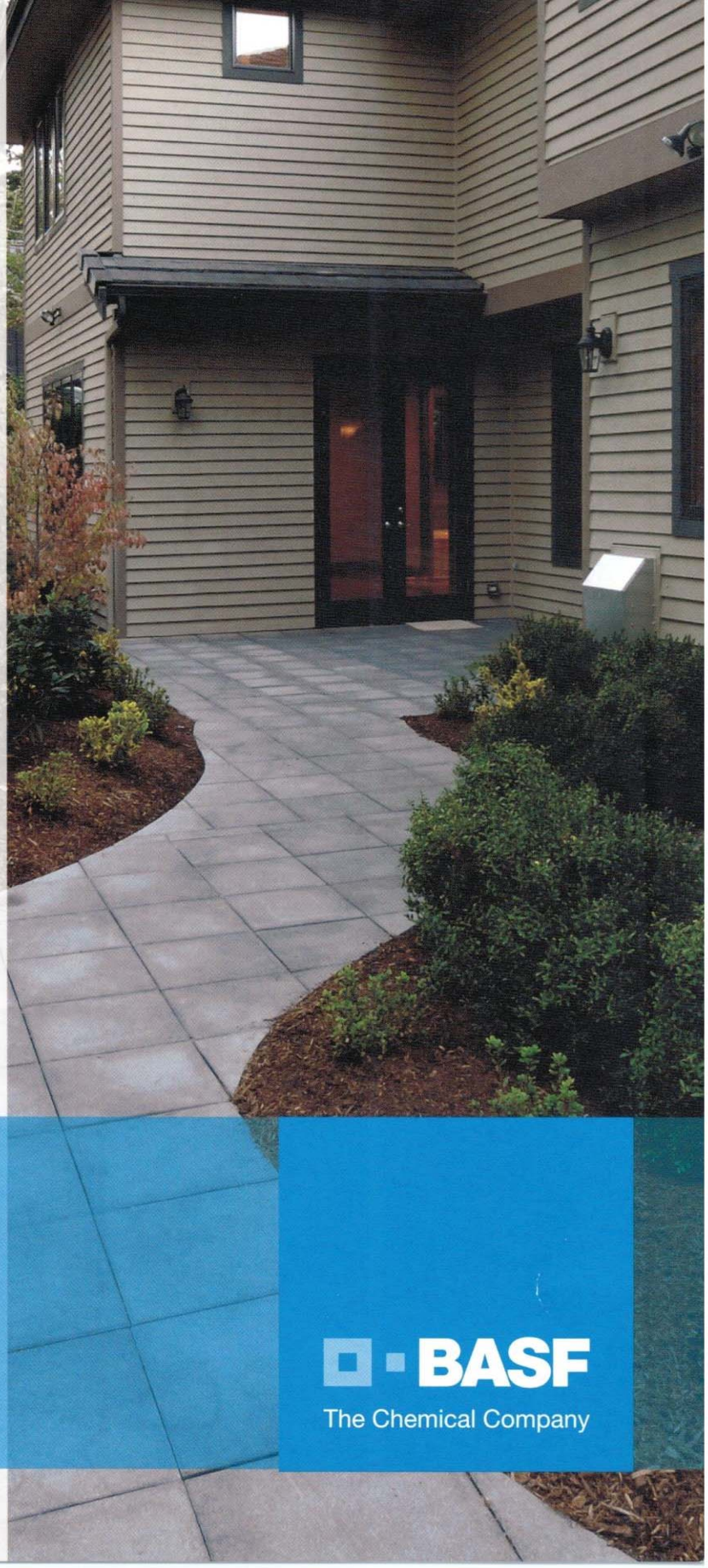
Uncompromising Performance Where and When You Need It

Prescription Treatment® brand

Cy-Kick® CS

Controlled Release Cyfluthrin



BASF

The Chemical Company

except ifs, ands or buts

Prescription Treatment® brand Cy-Kick® CS Controlled Release Cyfluthrin is the multi-use insecticide designed for professionals who want a product that works just as smart as they do. It dishes out 90 days of full-throttle, broad-spectrum killing power, controlling insects inside and outside on the toughest areas and surfaces. The difference is SmartCap™ microencapsulation technology. It protects cyfluthrin to create a long residual that pests easily pick up. Cy-Kick CS has the high-powered performance and flexibility you need. And it's much less likely to cause skin irritation than some other products, such as Demand® CS.

Designed for better results

SmartCap technology is designed to minimize mammalian exposure and increase field performance, durability and flexibility. Cy-Kick CS has an Oral LD 50-over-5,000mg/kg, defined as practically non-toxic by the EPA. The microcapsules are manufactured by essentially adding an outer shell (a carbon-based polymer) to a droplet of oil that contains cyfluthrin, the active ingredient (a.i.) in Cy-Kick CS. The end result is a powerful droplet of cyfluthrin in a polymer capsule. Ninety-five percent of the capsules are less than 20 microns in diameter, the same tiny size as the droplets produced from the best ULV equipment. State-of-the-art SmartCap technology provides many benefits for you and your customer.

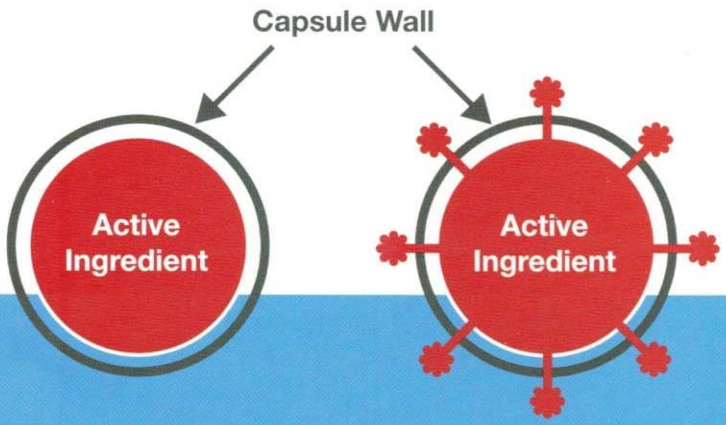
Inside the capsule, cyfluthrin is suspended in a drop of oil, which means the active ingredient quickly penetrates to other oily/waxy surfaces, like the exoskeletons of pests. As soon as a pest comes into contact with Cy-Kick CS, cyfluthrin starts moving through the capsule toward the pest and then quickly into its system.

The density of Cy-Kick CS is very similar to water, resulting in an even, consistent mixture that requires very little agitation to remain in full suspension. When sprayed, Cy-Kick CS creates a thick blanket of microcapsules. The barrier is difficult for insects to cross without exposing themselves to a lethal dose of insecticide. In fact, the likelihood that a pest will pick up a microcapsule is higher than any other encapsulated product because Cy-Kick CS has five times the number of capsules than its nearest encapsulated competitor, Demand CS.[1]

SMARTCAP TECHNOLOGY™

Exclusive SmartCap technology creates a shell around the active ingredient that increases residual control by protecting it from ultra violet rays, weather, porous and greasy surfaces and absorption into soil or organic matter. It also acts as a barrier to diminish exposure to humans and pets while reducing plant phytotoxicity and staining.

Through this technology we are able to construct tiny, lethal doses of the a.i. that can attach to and move with pests. The capsule structure was designed to improve performance by shortening contact time and is even small enough to be ingested during grooming. It's one more example of how BASF constantly works to make your job easier.



The capsule wall protects the a.i. from surface conditions and the environment.

The a.i. diffuses quickly out of the capsule when in contact with a pest's exoskeleton.

[1]Based on internal BASF study.

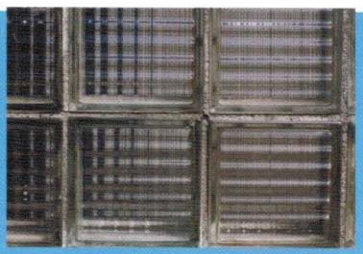
that goes where you go

Cy-Kick CS is labeled for residential use inside and outside, in almost every area insects are found. It can be used outside the home as a perimeter spray for an effective entrance barrier.

It can be used inside the home in kitchens, basements, bedrooms and bathrooms. It goes everywhere you need to go to eliminate pests.[2]

Cy-Kick CS is also labeled for use in commercial settings:

- Food handling establishments: restaurants, food processing plants, warehouses and supermarkets. Cy-Kick CS is effective in the tough places where others aren't, such as greasy or porous surfaces — places where other insecticides may let you down.
- Hospitals, apartments, nursing homes and schools. Treat in sensitive places with more confidence.
- Hotels, resorts and motels. Cy-Kick CS can even eliminate the renewed threat of bed bugs, which helps your hospitality industry customers avoid embarrassment.



Cy-Kick CS adheres to and releases from surfaces other insecticides may not, including concrete, greasy kitchen surfaces, siding, soil, mulch and glass.

No pest can hide

In developing Cy-Kick CS, cyfluthrin was specifically chosen as the active ingredient because it controls all major pests and most of the minor ones. Cyfluthrin was one of the first 3rd-generation pyrethroids to receive registration in the United States by the EPA for use in food processing/food handling facilities. Cyfluthrin is light-stable and has a broad spectrum of activity at low-end use rates. It has low mammalian toxicity, is not systemic and does not readily move in the environment.

Cy-Kick CS has a broad spectrum label including spiders, ants, mosquitoes, cockroaches, crickets, fleas, flies, bed bugs, silverfish, ticks, wasps, wood infesting borers and more. No picking and choosing between insecticides for specific pests. Cy-Kick CS gets all the pests you're up against.

Cy-Kick CS is a proven arachnicide – some other insecticides are weak against spiders.

[2]Do not use this product on mattresses, bed linens or clothes.

with less irritation

Cy-Kick CS reduces the chance of irritating your skin. With superior SmartCap technology encapsulating cyfluthrin, you shouldn't experience the same level of skin sensitivity you may have had with other pyrethriod insecticides, encapsulated or not. All encapsulations are not created equal. Our SmartCap technology was specifically designed to be one of the most advanced encapsulation products currently on the market. It protects the active ingredient and minimizes diffusion onto mammals while speeding diffusion onto insects. In other words, Cy-Kick CS was designed specifically with the pest management professional in mind.

SmartCap microcapsules reduce the exposure of plants to both the insecticide and the oil in which it resides. Lower phytotoxicity to plants is a great selling point for your customers. This translates into lower liability for your business.

With the average capsule size less than 20 microns and no powder to leave a stain, Cy-Kick CS dramatically reduces the possibility of forming visible residues on surfaces after treatment. SmartCaps will also reduce the potential exposure of sprayed surfaces to the capsules' ingredients and has no detectable odor.

Packaging and mixing benefits

Cy-Kick CS is formulated to mix more easily than older, less advanced products. It stays suspended in dilution. You can't afford an inferior product that settles prematurely. When your technician pulls the trigger with Cy-Kick CS in the spray tank, you can be sure that it will stay mixed, delivering state-of-the-art pest control. It's the kind of control that prevents callbacks that eat away at profits. Cy-Kick CS is easy to measure in 0.5, 1 or 2 ounces per gallon amounts, versus using one-fifth of an ounce, like Demand CS.

Cy-Kick CS comes in two forms: an easy-to-mix liquid and a convenient, ready-to-use pressurized aerosol for Crack & Crevice® or void treatments to fit all the ways you need to kill pests. In simple terms, Cy-Kick CS gives you everything you want without the limitations of other general insect sprays.

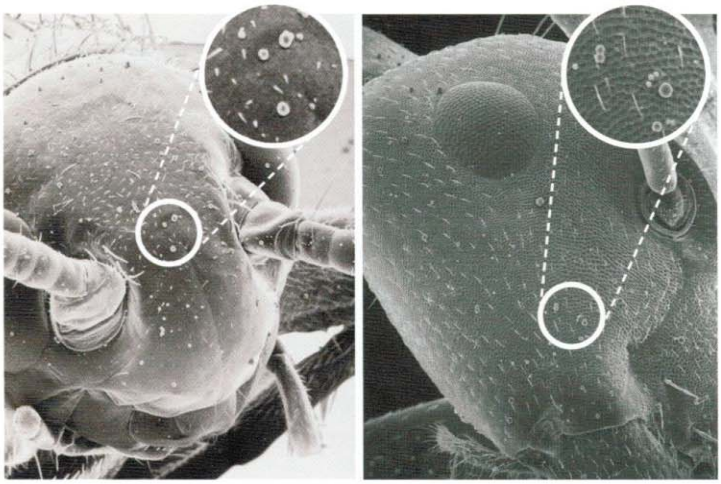
With one of the most flexible packaging lineups in the industry, including ready-to-use aerosol, 16-ounce and 120-ounce Tip 'n Measure bottles, you're less constrained in the fight against insects. Cy-Kick CS on your trucks means you have less to worry about.

How does your general insect spray stack up to Cy-Kick CS?

Characteristics	Cy-Kick CS with SmartCAP	Suspended Concentrates (SC)	Flowables	Emulsifiable Concentrates (EC)	Wettable Powders (WP)
Residual Control	+	+	−	−	+
Less Skin Irritation	+	+	+	−	−
Porous Surface Effectiveness	+	−	−	−	+
Greasy Kitchen Effectiveness	+	−	−	−	−
Stays Mixed	+	+	+	+	−
Low or No Odor	+	+	+	−	+

− Denotes product weakness compared to Cy-Kick CS. Individual products may grade out differently.

Chances of pest exposure are extremely high because the capsules stay on the surface where they're applied. When pests crawl across the barrier, they pick up microcapsules on their hairs and body, triggering a rapid release of the active ingredient that is absorbed by the pest's exoskeleton. Contact time required to receive a lethal dose is very short because of the ease that the pest picks up capsules and the fast diffusion of the cyfluthrin.



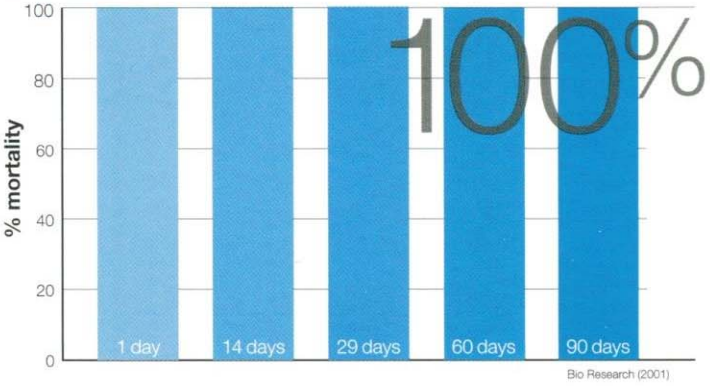
Electron microscope view of Cy-Kick CS microcapsules on a cricket (left) and a carpenter ant (right).

Microcapsules remain available to pests even on porous surfaces.

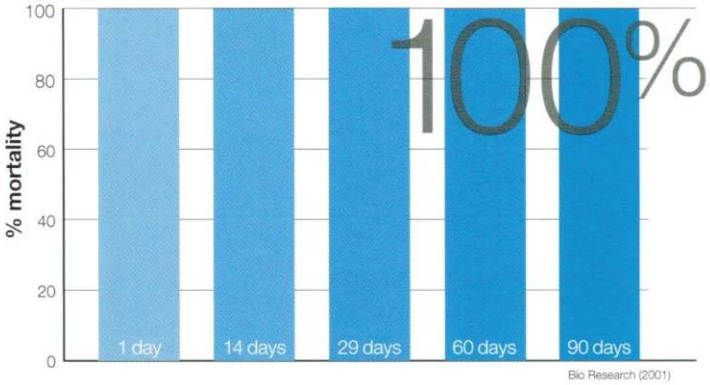
Cy-Kick® CS

Residual Effectiveness on Argentine Ants

Concrete



Mulch



While other sprays claim 90-day control, Cy-Kick CS delivers.