



catalyst of change !

Introduction: PlexCoat 52

General: PlexCoat 52 is a liquid based anti termite compound that will penetrate into many wood and plastic products to offer protection against the devastation brought about by termite attacks. PlexCoat 52 contains two components; a non metallic based anti termite agent, generally classified as pyrethroids, which are manmade versions of pyrethrins (an ingredient derived come from chrysanthemum flowers) & natural occurring boric acid.

Active ingredient

Bifenthrin: The active ingredient is an agricultural insecticide used for the control of borers and termites in timber but more importantly it is approved for use as insect repellent in agricultural crops (bananas, apples, pears, ornamentals). The active ingredient that migrates into the surrounding soil tends to bind tightly with soil and so discourages the infiltration of termites to the product (plastic or wood) interface. In soil, the slow migration of the active ingredient from the product has a half-life of up to 8 months, depending on soil type and aeration. methodology of action: pyrethroids interferes with the nervous system of insects when they eat or touch it.

Boric acid: Boric acid has two weapons in its armour against termites.

The first works is that boric acid itself is lethal to termites. When the termites start to gnaw on the insulation they ingest the boric acid and it kills them.

In their gut and digestive tract they have microbes and bacteria which digest the ingested substance into simpler compounds which they use for food. Due to boric acid's anti-bacterial properties it disrupts this digestive process removing the termites energy source which eventually kills them.

affects on animals:

Bifenthrin is more toxic to insects than it is to people because insects have lower body temperatures and relative body size. Another important reason for this is that mammals have the ability to rapidly break the ester-bond in the active ingredient's non toxic components. People may be exposed to through ingestion or skin contact, although dermal absorption has little to no risks beyond mild discomfort. Ingestion is moderately toxic for mammals because, in the body, the active ingredient is broken down and excreted quickly (within 3-7 days). environmental effects: It is more likely to remain in the soil and not so much in water (it is hydrophobic), nor in the air (it is unlikely to volatilize because of its physical properties). Because of the water-insolubility of the active ingredient, it will not rapidly cause contamination of ground water.

Boric acid is low in toxicity if eaten or if it contacts skin. The U.S. Environmental Protection Agency (EPA) concluded that boric acid is not likely to be carcinogenic to humans

Boric acid is practically non-toxic to birds. It is slightly toxic to practically non-toxic to fresh water fish. Boric acid is practically non-toxic to frogs and toads and aquatic life, such as water fleas. The U.S. EPA concluded that boric acid is relatively nontoxic to bees.

However, long-term ingestion of boric acid has resulted in vomiting, nausea, diarrhea, and stomach pain. This is often followed by

headaches, fever, tremors, twitching, a lack of energy, and weakness. Skin rashes, peeling and ulcers have also been reported

application:

PlexCoat 52 should be well mixed to ensure that there is no phase separation between the components. Using a standard brush, a thin coat of **PlexCoat 52** is applied on the surface of the product. A second coat is applied after 6 hrs (in temperatures above 25 °C). It is not important the surface be completely dried before the second coat (or if need be, depending on the level of infestation, subsequent coats) is applied. The active ingredients will be eventually absorbed by the product.

packaging: packed in 10 litre tins

Precautions:

suitable respirator should be used.

avoid exposure to skin

wear plastic gloves

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