

## **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 a non metallic based anti termite agent, generally classified as pyrethroids, which are manmade versions of pyrethrins (an ingredient derived come from chrysanthemum flowers). 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.

**affects on mammals:** It's more toxic to insects than it is to people because insects have lower body temperatures and relative body size. Another import 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 volatize because of its physical properties). Because of the water-insolubility of the active ingredient , it will not rapidly cause contamination of ground water.

**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 liter tins

## **Precautionary Notes**

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Although insoluble in water, the active ingredient is highly toxic to aquatic organisms and should be used with caution near water sources. Otherwise, the risks to aquatic species are somewhat offset by the hydrophobic property of the active ingredient.

The EPA has classified the active ingredient used as a class C carcinogen, a possible human carcinogen. This is based on a test with mice, which showed increased development of certain tumors