



# Permatek™

## Solutions for the control of insects in Engineered Wood Products



**Permatek™ products are specially formulated insecticides for the control of wood damaging insects in structural timber and Engineered Wood Products.**

**Several compounds are used in Permatek™ products, based on proven insecticides such as imidacloprid and encapsulated bifenthrin.**

Lonza has invested significant resources in researching the performance of insecticides in field trials in Australia, and can assist customers in choosing the best product for their application.

Our Research and Development facility includes a panel manufacturing facility, enabling us to test many different compounds in all types of wood products. We also have pressure treating facilities for the testing of products in solid wood.

We know the relative advantages of the commonly used anti-insect products and continue to trial new actives.

The two Permatek® products commonly used for Engineered Wood Products are Permatek® IM30 and Permatek® 100 encaps.



## The Permatek® advantage

- Effective protection from termite attack
- Preservative retention analysis available
- Technical support includes glue compatibility checks for glue line applications
- Experience in treating many different manufactured wood products

### Permatek® 100 encaps

Permatek® 100 encaps is a 100g/L microcapsule suspension of the insecticide bifenthrin and is ideal for the control of borer, termites, lyctid beetles and other insects that attack engineered wood products (EWP) such as plywood and LVL.



Micro-encapsulation unit.

Specifically designed for treating EWP's via addition into the glue mix prior to lay-up and pressing, the active ingredient is encapsulated in a specially formulation polymeric wall.

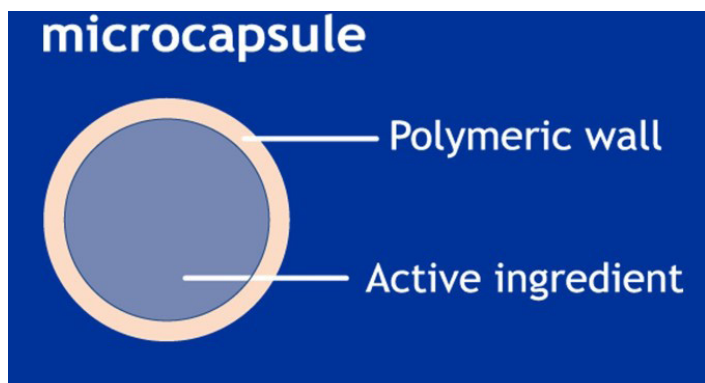


Diagram of micro-capsule.

Encapsulation protects the bifenthrin from the harsh environment found in the glue mix. It also enhances the health and safety of bifenthrin, the capsule prevents human contact with the active ingredient. The microcapsule allows the active ingredient to withstand very high pH resin and extreme heat and pressure of pressing process. Heat and pressure release the bifenthrin from the capsule and it becomes bound to the wood fibre, minimising worker health & safety issues by preventing direct contact with the active ingredient.

Permatek® 100 encaps is approved by ERMA (NZ) and APVMA (Aus) and accepted under AS/NZS1604, TUMA & TMA for H2 treating of EWP's.

### Permatek® IM30

Permatek® IM30 is a specially formulated product using Imidacloprid as the active ingredient and has been developed to enable incorporation into engineered wood products during the manufacturing process. It has been successfully tested as a glue line additive for plywood and LVL made from various wood species.

Permatek® IM30 is a very effective, broad spectrum, water miscible insecticide for use against structural pests attacking timber and engineered wood products such as termites, borers and carpenter ants.

Compared to many older synthetic pesticides the active ingredient in Permatek® IM30, imidacloprid, is considered to have low mammalian toxicity and is commonly used to control flea's on house hold pets.

Initially developed to control insect pests on crops Imidacloprid is widely used in Agriculture on crops such as cereals, vegetables, fruits and ornamentals for the control of insect pests such as aphids, scales insects and thrips on ornamental plants and soil insect pests such as white grubs, crane fly, mole crickets and lawn moths like sod webworm.



Permatek IM30 added to glue line during LVL manufacture.

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