

PARACHEM®

1.0 Description

1.0 DESCRIPTION

Effective protection against powder post beetles.

Composition:	Boron compound
Formulation:	Soluble powder
Appearance & odour:	White granules and odourless
Density:	1.6 g/ml at 20°C
Solubility:	Soluble in water

2.0 Function

2.1 General

Parachem® is a boron based product, which provides effective protection against powder post beetles. Parachem® was formulated to erase the uncertainties for the treaters from other boron available in the markets supplied as a commodity. Parachem® is widely used in rubberwood producing countries such as Malaysia, Indonesia, Thailand and Vietnam. Parachem® is not limited to treatment of rubberwood; it is suitable for any wood species that require protection against powder post beetles.

2.2 Application

Parachem® is a white flowable powder with high solubility in water. The product is diluted in water and pressure treated into timber with a vacuum pressure impregnation plant. The treatment solution is mildly alkaline and is not corrosive to the treatment plant or its parts.

3.0 Benefits

- Protects from powder post beetles
- Odourless and retains wood's original colour
- Does not contain NaPCP, PCP
- Can be painted and glued
- Treated timber penetration can be determined on site
- Concentration of treatment solution can be determined on site
- Treated timber retention can be determined by a Lonza Wood Protection laboratory

Lonza Wood Protection provides services such as plant commissioning, training on plant operation, quality control and treatment methods, hydrometer chart, charge sheet and Treatment Certificate. Our laboratory is equipped to test the retention and penetration of Parachem® in treated timber.

4.0 Directions for Use

Parachem® is diluted in water and pressure treated into timber with a vacuum pressure impregnation plant.

Table 1 : Mixing Table

Concentration (% w/v)	Weight of Parachem® (kg)	Volume of water (Litre)
1	100	10000

Table 2 : Treatment schedule*

Initial Vacuum	25 inHg or 635 mmHg	20 minutes
Pressure	12-14 bars or 170 - 200 psi	45 minutes
Final Vacuum	25 inHg or 635 mmHg	15 minutes

* the schedule will vary according to the thickness of the timber and the condition of the treatment plant. Lonza Wood Protection will be pleased to provide advice.

Parachem® solution concentration: the concentration of Parachem® treatment solution can be determined on site with the use of a hydrometer and a hydrometer chart. It is recommended that the treatment solution concentration is checked prior to every treatment and whenever new treatment solutions are prepared.

Penetration of Parachem® in treated wood: the penetration of Parachem® can be determined with the use of a curcumin reagent. The reagent is applied to the cross section of the treated timber. The development of a bright red colour indicates the presence of Parachem®.

Parachem® add-ons

To further enhance the Parachem® treatment, add-ons can be included into the Parachem® treatment. These products have been tested to be compatible with Parachem® and can be added into the Parachem® treatment solution.



PARACHEM®

Product	Purpose
Antibu® CC	Offers a broad spectrum protection against stain and mould. Provides extra protection against mould and stain during the waiting period before kiln drying or during air seasoning.
Antiborer® 10EC	Extra protection against insects For factories located in high risk areas of pin hole borers attack, Antiborer® can be added into the Parachem® treatment solution for extra protection.
Brightener	Extra fresh colouration for treated wood. To further enhance or brighten the colour of the treated wood

5.0 Safety & Handling

Please refer to material safety data sheet for further information.

