

## VACSOL® AZURE CLEAR RTU Wood Preservative

### 1.0 Description

Vacsol® Azure is a Light Organic Solvent Preservative (LOSP) incorporating azole fungicides and permethrin insecticide in a white spirits hydrocarbon carrier. It is intended for the protection of building timber and engineered wood products against decay and termite attack as per H3.1 and H3 above ground treatment category in NZS3640 and AS1604 series respectively. It is supplied as a ready-to-use (RTU) solution made to specific active ingredient strength according to the customer's process requirements and can be used only in suitable industrial vacuum pressure impregnation facilities.

Appearance	Clear free flowing liquid (may be coloured)
Odour	Distinctive solvent odour – white spirits
Density (typical)	0.82 kg/L at 20°C
Flash point	38°C minimum

### 2.0 Formulation

#### Active ingredients:

Tebuconazole:	3 – 7.5 g/L
Propiconazole:	3 - 7.5 g/L
Permethrin:	2 - 5 g/L
Proprietary stabiliser and water repellent agents	
Hydrocarbon solvent:	Balance

### 3.0 Application

**Plant:** Dedicated plant is recommended for treatment with Vacsol® Azure and conventional water borne treatment plants are not suitable. Full computer controlled automation is strongly recommended. Lonza will advise on suitable plant, engineering and process control for treating with Vacsol® Azure.

**Processing:** The product is supplied RTU (ready-to-use) and should not be further diluted. Treatment process will depend on the nature of the wood products to be treated. Depending on timber or wood product characteristics and process variables, expected solution usage will be in the range of 25 to 60 L/m<sup>3</sup> with the higher uptakes required for LVL and plywood.

**Timber:** Radiata pine or other permeable timber species are most suitable for treatment. The timber

to be treated must be dry (< 18% moisture content) and free of sapstain, mould and insect damage. All timber should be treated in final shape and form.

**Treated timber:** The preservative inherently has no colour (colouring additives are available). The treated timber should be stood down for up to 2 week depending on weather conditions to allow excess solvent to evaporate out of the wood. A residual odour of the solvent in the wood may be noticed.

For painting, allow the stand down period as above and first test a board for adequate adhesion. Residual solvent in the wood may soften solvent based glues. Check for glue suitability first particularly with plywood and LVL which can retain the solvent for longer periods. The preservative is not corrosive to metals but corrosion resistant fasteners and fixings are recommended for all exterior use.

### 4.0 Treatment Specifications

**Retention:** Minimum retention of 0.06% m/m of azoles (as tebuconazole + propiconazole) and 0.02% of permethrin is required in the analytical zone (see NZS3640, AS1604.1 or other relevant standard for full details).

### 5.0 Optional Additives

**Colour additive:** Dye or pigment colours can be added to the solution for easy identification of the treated wood.

**Tracer additive:** To enable easy penetration assessment of the preservative in wood, a trace level copper or zinc additive can be included in solution.

**Anti-mould additive:** For additional protection against surface mould on the wood during storage.

### 6.0 Safety & Handling

**Handling:** Contact with the product may irritate the eyes and skin. Avoid inhaling mist or vapours. Wear solvent resistant gloves if handling the freshly treated timber. See MSDS for details.

**UN number:** 1993 flammable liquid, N.O.S.

**DG Class:** 6.1 – Packaging group III

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