

## 1.0 Description

### 1.1 Active Ingredients

**Vacsol® Azure** is a solvent (white spirits) based, tri-functional wood preservative containing fungicides (propiconazole & tebuconazole), an insecticide/termiticide (permethrin) and a water repellent (WR) system.

### 1.2 Formulation (Concentrate)

Propiconazole	2.5% (m/v)
Tebuconazole	2.5% (m/v)
Permethrin	1.75% (m/v)
Vacsol® WR <sup>(1)</sup>	30% (v/v)
White spirits	balance

(1) Proprietary formulation containing a blend of petroleum resin and waxes

### 1.3 Appearance

Clear, amber coloured liquid with a characteristic solvent odour

### 1.4 Specific Gravity

0.89 @ 20°C

## 2.0 Application

### 2.1 General

**Vacsol® Azure Concentrate** is a Light Organic Solvent Preservative (LOSP) which must be diluted with white spirits to the correct working strength, in accordance with mixing instructions given in Section 3.

**Vacsol® Azure**, RTU (Ready to Use) is specifically formulated for the treatment of timber to AS 1604.1 H3 hazard level (external above ground) providing protection against fungal decay and attack from borer and termites. **Vacsol® Azure** is approved for **AWPA UC3A** applications in the USA (EPA Ref. No. 75101-1). **Vacsol® Azure** is also approved for H3.1 applications in NZ (NZS 3640:2003).

### 2.2 End Uses

**Vacsol® Azure** treated timber is intended for use in exposed, above ground situations, such as fascia, weatherboards, plywood cladding, door and window surrounds, hand rails, laminated posts and beams, etc.

### 2.3 Dimensional Stability

The dimension or physical appearance of timber components remains unaltered after treatment with **Vacsol® Azure**.

## 3.0 Directions for Use

### 3.1 Concentrate Solution

**Vacsol® Azure Concentrate** is supplied in 200 litre steel drums and must be diluted to the correct working strength before being used as a wood preservative. Each 200 litre drum should be diluted with 400 litres of white spirits and mixed thoroughly to produce 500 litres of **Vacsol® Azure** (RTU). Appropriate protective clothing should be worn during mixing and every precaution taken to avoid skin contact or inhalation of solvent vapour or mist. Refer the **Vacsol® Azure** Material Safety Data Sheet.

### 3.2 RTU Solution

On completion of the mixing procedure, **Vacsol® Azure** (RTU) is ready for delivery to the LOSP treatment plant. Re-mixing is generally unnecessary, however, after periods of prolonged plant closure, e.g. during maintenance or holidays, recycling/agitation of fluid between BSV and OSV storage tanks is recommended. Pigmented systems require regular mixing in order to prevent settlement and subsequent caking of colourant.

### 3.3 Application to Timber

**Vacsol® Azure** solutions are applied to suitably dried timber in a purpose-built vacuum-pressure LOSP plant. Pine species, such as Radiata and Corsican, are readily treatable by LOSP, although other species may be treated on an experimental basis.

Timber to be treated should be totally free from decay, insect attack and excessive sapstain. Timber should be preferably kiln dried to at least 20% moisture content and should be in final shape and form with all machining and rip sawing completed before treatment.

A fluid uptake range of typically 32 litres/m<sup>3</sup> is required to comply with the AS 1604 H3 minimum retention specification for total azole (0.06% m/m) and permethrin (0.020% m/m). However, fluid uptake will require adjustment (upwards) in order to accommodate higher density wood or to comply with penetration requirements for heartwood exceeding 20% of cross sectional area (refer to AS 1604.01 for details).

Koppers Arch is able to advise on the most appropriate treatment schedule for the commodities being treated and specifications to be met.

After treatment, timber should be filleted and allowed to air-dry in a well ventilated area for at least 48 hours before any further painting or gluing. Where exceptionally low residual solvent levels are specified, ie for acrylic primer application, a drying period of 7 days or more may be required.

#### 3.4 Other Recommendations

**Vacsol® Azure** solutions should not be mixed with any other chemicals except under guidance from Koppers Arch.

## 4.0 Safety and Handling

#### 4.1 General

**Vacsol® Azure** is flammable, irritating and harmful, and thus requires special care for safe handling.

A detailed Material Safety Data Sheet is available from Koppers Arch.

#### 4.2 Handling the Product

**Vacsol® Azure** is flammable (Flash Point 38° C), thus the relevant safety standards should be followed with regard to sources of ignition and separation distances.

Avoid direct contact with the product and maintain high standards of workplace hygiene. Do not eat, drink or smoke while using **Vacsol® Azure**.

Protective clothing of overalls, impermeable gloves and safety boots should be worn at all times, plus safety glasses/goggles and organic vapour respirator when circumstances require.

#### 4.3 Safety and First Aid

In case of eye contact, flush eyes with cold water for at least 15 minutes and seek medical attention. If skin contact occurs, wash affected areas with soap and cold water and seek medical attention if irritation persists. If swallowed or inhaled, seek medical advice. Show a copy of the **Vacsol® Azure** MSDS to the attending medical practitioner.

## 5.0 Transport and Storage

#### 5.1 Transport

**Vacsol® Azure** is a Class 3B Hazardous Substance.

#### 5.2 Storage

Storage conditions must be approved for storage of Class 3B substances in accordance with the Dangerous Goods Act 1974

#### 5.3 Spills and Disposal

Wear protective clothing. Remove all sources of ignition. Stem leak at source if possible, then dam spill with soil or sawdust. Pump liquids into suitable containers for re-use, then absorb residue with sawdust, sand or soil. Prevent fluid escape in public drains and waterways - alert emergency services in the event of a major spillage.