

# CELCURE® AC-500

Technical Data Sheet  
TDS 1789

Wood preservative for industrial vacuum pressure treatment

## Celcure AC-500 liquid concentrate

### DESCRIPTION

Celcure AC-500 is a water-based wood preservative which contains an alkaline copper quaternary system, including an organic co-biocide (a quaternary compound), and boric acid.

Celcure AC-500 is supplied as a liquid concentrate and diluted solutions are applied to timber in an industrial, controlled treatment process using vacuum pressure impregnation.

### RECOMMENDATIONS FOR USE

Celcure AC-500 is for use only as a wood preservative. Celcure AC-500 liquid concentrate is diluted with water to obtain a Treating Solution with a concentration between 1% and 10% m/m, according to the treatment specification.

Mixing of the product from the IBC or bulk storage tank should be with an automated dosing system. This requires minimal operator involvement and reduces exposure of the operator to the product. Information on the use of the system can be obtained from Koppers.

### Precautions

The handling and safety precautions shown on the Celcure AC-500 product label must be understood and followed at all times. Use only as described on the label. See the Celcure AC-500 product label and the Material Safety Data Sheet for further information.

Care must be taken to avoid exposure, particularly to the eyes and by inhalation, so appropriate personal protective equipment must be worn. Wash splashes from skin or eyes immediately.

Harmful by inhalation, in contact with skin and if swallowed.

Causes burns.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dispose of surplus chemical, contaminated materials (including sawdust) and the empty container safely using a method approved by the waste disposal authority.

When using do not eat, drink or smoke.

### PROPERTIES

Colour : Celcure AC-500 concentrate is blue.  
Density: 1.23 g/cm<sup>3</sup> at 20 °C.  
Miscibility : Soluble in water.  
Odour : Slight ammoniacal and sweet, amine odour.  
pH : 10.6

### PACKAGING and STORAGE

IBC or bulk. Celcure AC-500 concentrate should be stored in a designated, lockable area to prevent unauthorised access. Keep away from food, drink and animal feeding stuffs.

## Celcure AC-500 treating solution

### DESCRIPTION

Celcure AC-500 treating solution is a dilution with water of Celcure AC-500 liquid concentrate, to a concentration between 1% and 10% m/m.

It is applied to timber in an industrial, controlled treatment process using vacuum pressure impregnation.

### PROPERTIES

Colour : Celcure AC-500 treating solution is blue.  
Density : 3% m/m solution : 1.0 g/cm<sup>3</sup> at 20 °C.  
Odour : Slightly sweet, amine odour.  
pH: 3% m/m solution : 9.4

### RECOMMENDATIONS FOR USE

#### Timber

The timber to be preserved shall be clean, dry, and not decayed by fungi or attacked by insects. The moisture content of the wood shall be appropriate for the preservative treatment method and end use. At the time of preservation the timber moisture content must be below the fibre saturation point (approximately 30 % m/m).

#### Preservative Application

Celcure AC-500 treating solution should be applied using a vacuum pressure impregnation plant operated in accordance with the Koppers Plant Operations Manual.

The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment. However, engineering controls may replace personal protective equipment if a COSHH



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assessment shows they provide an equal or higher standard of protection.

Wear suitable protective clothing (coveralls), gauntlets and eye protection when using the product and during maintenance of treatment equipment.

Wear impervious gauntlets, impervious footwear and an impervious apron when handling freshly treated timber.

Avoid excessive contamination of coveralls and launder regularly. Take off immediately all contaminated clothing.

Do not breathe aerosol.

Wash hands and exposed skin before eating, drinking, smoking and after use.

If you feel unwell, seek medical advice (show the label where possible).

### **Drying**

Treated wood must be held until surfaces are dry within a bunded area on a site which is maintained to prevent loss of treatment product to the environment

Treated timber will dry naturally, but to minimise the drying period, tightly bound packs should be stickered and then allowed to stand in a well-ventilated area. Care should be taken not to despatch timber which still contains free liquid on its surfaces.

### **Celcure AC-500 preserved wood**

#### **DESCRIPTION**

Celcure AC-500 preserved wood has been preserved by the application of a 1 % to 10 % m/m solution in water of Celcure AC-500 liquid concentrate, in an industrial, controlled treatment process using vacuum pressure impregnation, and then allowed to dry.

Celcure AC-500 preserved wood is protected against wood rotting fungi and wood destroying insects.

Celcure AC-500 preserved wood, treated to an appropriate specification, can be used for structural timber, sole plates, garden furniture, playground equipment, patios, decks, fencing, garden edging, and landscaping structures such as pergolas.

Celcure AC-500 preserved wood products which are no longer usable such as cutoffs, broken boards, sawdust or treated timber material taken out of service are not considered hazardous and may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with National and Regional regulations. For up to date information please contact the Technical Services Department.

### **ADDITIONAL INFORMATION**

#### **APPROVAL**

Celcure AC-500 is approved by the UK Health and Safety Executive under The Control of Pesticides Regulations 1986 (as amended) for use as directed. HSE No. 7404. The approval holder and marketing company in the UK is Protim Solignum Limited.

Celcure AC-500 contains copper carbonate hydroxide, benzalkonium chloride and boric acid.

Always read the label. Use pesticides safely.

Celcure AC-500 treated wood products are produced by independently owned and operated wood preserving facilities.

Koppers Performance Chemicals provides a range of products and technologies for the treatment, protection and enhancement of timber. Information and advice is available on all aspects of our products from the Technical Services Department.

For more information visit;

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\* Celcure is a registered trademark of Protim Solignum Ltd. Protim Solignum Ltd. trades as Koppers. A Koppers Company.

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### **Disposal**

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