

# CELCURE® C4

Technical Data Sheet  
TDS 2422

## Wood preservative for industrial vacuum pressure treatment

---

### DESCRIPTION

CELCURE\* C4 is a water-based wood preservative which contains an alkaline copper quaternary system and two organic co-biocides (benzalkonium chloride and cyproconazole).

Celcure C4 is supplied as a liquid concentrate and diluted solutions are applied to timber in an industrial, controlled treatment process using vacuum pressure impregnation.

Celcure C4 preserved wood is protected against wood rotting fungi and wood destroying insects.

### PROPERTIES OF CELCURE C4 CONCENTRATE

Colour: Celcure C4 concentrate is blue  
Density (g/cm<sup>3</sup>): 1.1 – 1.3  
pH: 10 -12  
Odour: Slightly sweet, amine odour.

### DILUTION

Celcure C4 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 use 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.

### PACKAGING AND STORAGE

Supplied in IBC or bulk. Store in cool, well-ventilated area. Protect from frost. Keep container tightly closed. Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Must only be kept in original packaging. Avoid release to the environment.

### CELCURE C4 TREATING SOLUTION

Celcure C4 Treating Solution is a dilution with water of Celcure C4 liquid concentrate to a concentration of between 1% and 10% m/m. It is applied to timber in a controlled treatment process using vacuum pressure impregnation.

### PROPERTIES OF C4 TREATING SOLUTION

Colour: Celcure C4 Treating Solution is blue.  
Density (g/cm<sup>3</sup>): approx. 1.0 – 1.1.  
Odour: Slightly sweet, amine odour.  
pH: 4 % m/m solution: 8.5 – 10.5

### RECOMMENDATIONS FOR USE

#### Retention

Retention varies according to wood species, the condition of timber treated and the application method used. Contact Koppers for specific guidance.

#### Timber

The timber to be preserved shall be clean and dry to allow penetration of the liquid, and not decayed by fungi or attacked by insects.

Wood-working (eg: planing, profiling) should be carried out before treatment. At the time of treatment the timber moisture content must be below the fibre saturation point (approximately 28% m/m) and should be at the moisture content appropriate for the end use of the preserved timber.

#### Preservative Application

Celcure C4 should be applied using a high pressure vacuum impregnation plant, operated, in accordance with the Koppers Plant Operations Manual, to give an appropriate level of uptake and penetration into the wood.

#### Uptake

Uptake varies according to wood species, the condition of timber treated and the application method used. Contact Koppers for further information.

#### Drying of Freshly Treated Wood

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. Timber which still has preservative liquid on its surfaces, or within a pack, must not be despatched.

### CELCURE C4 PRESERVED WOOD

#### DESCRIPTION

Celcure C4 preserved wood has been preserved by the correct application of Celcure C4 wood preservative in an industrial, controlled treatment process using vacuum pressure impregnation, and then allowed to dry.

Celcure C4 preserved wood is protected against wood rotting fungi and wood destroying insects.

See the "Users Guide to Celcure C4 Preserved Wood" for additional and important information.



FM 01724



FM 36409

Any surface exposed by drilling or cutting must be re-treated with an approved 'endcoat' preservative. Failure to re-treat may reduce the effectiveness of the preservative treatment. Always follow the 'endcoat' preservative manufacturer's recommendations.

## COMPATIBILITY

Certain metal products (including fasteners, hardware and flashing) may corrode when in direct contact with wood treated with copper based preservatives. To prevent premature corrosion and failure it is important to follow the recommendations of the manufacturer for all metal products. Do not use preserved wood in direct contact with aluminium.

If you desire to apply a paint, stain, clear water repellent or other finish to your preservative treated wood, we recommend following the manufacturer's instructions and label of the finishing product. Before you start, we recommend that you apply the finishing product to a small test area before finishing the entire project to ensure that it provides the intended result.

## DISPOSAL

Preserved timbers which are no longer usable such as cut ends, broken boards, sawdust, or treated timber material taken out of service, may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with national and local regulations. Do not use treated wood to cook food. For up to date information contact the Technical Services Department.

## SAFETY INFORMATION

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

Do not breathe vapour.

Do not get in eyes, on skin, or on clothing.

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/ attention.

IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

Call a POISON CENTRE or doctor if you feel unwell.

## PRECAUTIONS

The handling and safety precautions shown on the Celcure C4 product label must be understood and followed at all times. Use only as described on the label.

Wear suitable protective clothing, gloves and eye/face protection when using the product and during maintenance of treatment equipment.

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Do not breathe aerosol.

Protect cuts and abrasions by means of a waterproof dressing. When using, do not eat, drink or smoke. Wash splashes from eyes and skin immediately with water. Wash hands and exposed skin before meals and after use.

Do not contaminate watercourses or ground. Dispose of surplus chemical, contaminated materials (including sawdust) and the empty container safely using a method approved by the waste disposal authority.

See the product label and the Safety Data Sheet for further information.

## Handling Precautions – Freshly Treated Wood

If freshly treated timber is visibly wet with the preservative, then impervious clothing such as impervious gauntlets, impervious footwear and an impervious apron should be worn when handling the recently treated timber.

Wash splashes from eyes and skin immediately with water. Do not eat, drink or smoke whilst handling freshly treated timber. Wash hands and exposed skin before eating, drinking, smoking and after work. Protect cuts and abrasions by means of a waterproof dressing.

## ADDITIONAL INFORMATION

Celcure C4 preserved 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;

[www.koppersperformancechemicals.com](http://www.koppersperformancechemicals.com)

email : [kpc@koppers.eu](mailto:kpc@koppers.eu)

Telephone: +44 (0) 1628 486644

Emergency: +44 (0) 1628 890907

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

TDS 2422© August 2014

**PROTIM SOLIGNUM LTD** Fieldhouse Lane, Marlow, Bucks SL7 1LS Tel: +44 (0) 1628 486644 Fax: +44 (0) 1628 476757

Protim Solignum Limited's products are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Protim Solignum endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it save as specifically provided by its Terms and Conditions of Sale.