

Technical Leaflet

Wolmanit[®] CX-8WB

Liquid wood preservative concentrate based on copper(II)-carbonat:copper(II)-hydroxide (1:1) and Cu-HDO.

For timber in Use Classes 1-4 according to EN 335.

1. Usage

Field(s) of use Preservation of structural timber for indoor and outdoor use, in particular for timber used in use class 1, 2, 3 and 4, e.g. for horticulture and landscape gardening, posts, fences, palisades, playground equipment and wood paving including use class 4 special application for e.g. transmission poles. Please mind the restrictions.

Efficacy Preventively effective against wood-destroying fungi, including soft rot, as well as against wood-destroying insects, including termites.

Application methods Apply the product via vacuum pressure / oscillating pressure treatment. Dilute the product with water according to the recommended application solution strength by automated dosing.

Retentions / Solutions strengths Without protection against termites the following retentions apply in Use Classes (UC) 1-4:

	UC 1	UC 2	UC 3	UC 4	UC 4 special ⁴
Retention ¹ [kg/m ³]	6,50	7,85	7,85 - 9,00	10,90 - 22,50	13,0 - 31,25
Solution strength ² [% (w/w)]	1,08	1,30	1,30 - 1,50	1,82 - 3,75	2,17 - 5,21

With protection against termites³ the following retentions apply in Use Classes (UC) 1-4:

	UC 1	UC 2	UC 3	UC 4	UC 4 special ⁴
Retention ¹ [kg/m ³]	13,10	13,10	13,81	13,81 - 22,50	13,81 - 31,25
Solution strength ² [% (w/w)]	2,18	2,18	2,30	2,30 - 3,75	2,30 - 5,21

¹: This refers to the undiluted product (i.e. concentrate) per volume of treated wood.

²: Based on an average solution uptake of 600 L/m³ during vacuum pressure treatment.

³: Provided that termites do not occur in harmful quantities in the country of application, the treatment of wood against termites is only permissible if this wood is intended for export.

⁴: The use class "UC 4 special" specifically targets treated timber with applications having an increased service life time (e.g. transmission poles). For the intended use class "UC 4 special" a service life between 25 and 40 years is to be expected.

2. Handling

Determination of solution strength The impregnation concentration can be determined with the help of a conductivity meter. Due to variations in the quality of the dilution water, the measurements are only indicative.

Technical information When switching to Wolmanit® CX-8WB, a temporary detachment of already existing rust components may occur. During shutdown periods formation of flash rust in the impregnation vessel may occur. Use of mixing water with a high electrolyte concentration can lead to an increase in the corrosiveness of the impregnation solution. Increased water hardness can lead to limescale deposits. The suitability of the mixing water should therefore be checked. In general, it is advantageous to provide the plant with a suitable coating. Please contact our Technical Service for further advice. The addition of color concentrate(s) to the impregnation solution can have a negative effect on the impregnation success and the corrosion behavior.

3. Product specification

Form of supply Liquid, water-soluble wood preservative concentrate.
Product and treatment solution: blue, weak odor

Density appr. 1,2 g/cm³ (20 °C)

pH value appr. 9,8 at 2,0% solution strength (25 °C)

Labelling



Danger

Active ingredients 2,80 % bis-(N-cyclohexyldiazoniumdioxy)-copper („copper-HDO“)
13,04 % copper(II)-carbonat:copper(II)-hydroxide (1:1)

4. Storage

Conditions of storage

1. The product must be stored only in original containers tightly closed and out of reach of unauthorized persons.
2. Recommended storage temperature range: $\geq 0^{\circ}\text{C}$ to $+ 40^{\circ}\text{C}$.1
3. Protect from frost.
4. At low temperatures, crystallization may occur. Redissolve precipitated ingredients by raising the temperature.
5. The shelf life of the product is 24 months

5. Imprägniertes Holz

Colour of the treated timber Initially after treatment, the timber has a green appearance which gradually will change to a warm brown color after weathering and finally turns to silver-grey.

Fixation The fixation time is minimum 48h.

6. Risk mitigation measures, first aid instructions and measures to protect the environment

Risk mitigation measures

1. The following personal protective equipment should be worn during product handling phase (application and cleaning):
 - Wear protective chemical resistant gloves during product handling phase (glove material to be specified by the authorization holder within the product information).
 - A protective coverall (at least type 6, EN 13034) shall be worn.
 - Wear suitable protective footwear (EN 13832) when applying the product.
 - Wear a face shield when applying the product.
2. The process of dilution has to be carried out using an automatic dosing system.
3. Avoid contact with skin and eyes.
4. Handle product and dry freshly treated wood in areas with good ventilation.
5. Cleaning of the treatment chamber as well as pressure treatment of wood shall not be performed by the same operator on the same day.
6. All industrial application processes must be carried out within an area situated on impermeable hard standing with bunding to prevent run-off and a recovery system in place (e.g. sump).
7. Freshly treated timber must be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil, sewer or water. Any losses of the product, including any contaminated water/soil must be collected for reuse or disposed of in accordance with local/national/international requirements.
8. The product must not be applied on wood for use class 4, that is foreseen to be placed directly in water bodies.
9. The use of the product on wood, which is foreseen for use classes 1 and 2 in residential areas, is restricted to small-scale and/or static wood constructions, which do not have direct contact to the interior space.

First aid instructions	<p>1. General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth or induce vomiting if a person is unconscious. If unconscious, place in recovery position and seek medical advice.</p> <p>2. IF IN EYES: Immediately rinse eyes with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15 to 30 minutes. Seek immediate medical attention.</p> <p>3. IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off immediately all contaminated clothing and shoes. Rinse skin with lukewarm, gently flowing water/shower for at least 15 to 30 minutes. Seek immediate medical attention.</p> <p>4. IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Immediately seek medical advice. Seek immediate medical attention.</p> <p>5. IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor.</p>
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Emergency measures to protect the environment	<p>1. If the product contaminates lakes, rivers, sewers or soil, inform the appropriate authorities in accordance with local regulations.</p> <p>2. Contain and collect spillage with an inert absorbent (e.g. sand, earth etc.). For large amounts: Pump off the product.</p> <p>3. Dispose of contents/container to a special waste collection point in accordance with local/national/international requirements.</p>
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Instructions for safe disposal of the product and its packaging	<p>1. Product residues, contaminated materials (including sawdust) and empty containers must be collected and disposed of in accordance with the national waste disposal legislation and any regional and/or local authority requirements.</p> <p>2. Do not discharge the biocidal product nor the diluted solution of the biocidal product into the sewage system or the environment (in particular surface water).</p>
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Further information	Refer to the Material Safety Data Sheet for more information.
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This information and all further technical advice reflect our present knowledge and experience. The purpose is to inform interested parties about our products and their use and should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part. Any existing third party intellectual property rights, especially patent rights, must be taken into consideration.

Application and usage of our products based on our technical advice are beyond our control and are the sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application. For experimental products we do not guarantee for later commercial availability. It remains the responsibility of the recipients of our products to comply with existing laws and regulations. In addition, the currently valid version of our general conditions of sale applies.

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Use wood preservatives safely. Always read the labelling and the product information before use