

User Guide

Wolmanit® CX Treated Timber

Be it palisades, pergolas, carports or playground equipment – wood needs protection.



Especially in outdoor areas with constant contact with the ground, our home-grown wood shows a relatively low durability and is endangered by fungi, insects and the effects of the weather.

A vacuum pressure impregnation can provide a long-lasting protection for these types of wood.

Modern wood treatment places high demands on research and technology. Today, preservatives must be effective and at the same time comply with the legal requirements for environmental, health and occupational safety. **Wolmanit® CX** can claim to fulfill both of these requirements.

Wolmanit® CX products consist of water-based wood preservatives based on a combination of copper and the exclusive active HDO.

Vacuum Pressure Process

With its cell cavities and cell walls the structure of wood resembles to that of a sponge. The aim of wood preservation is to coat these walls and fill the cells with preservative to protect them from decay caused by wood-destroying fungi and insects.

The vacuum removes the air from the cavities to create space for the **Wolmanit® CX** solution, which is then forced deep into the wood under high pressure.

Application Fields

Applications can include the following above and in-ground uses but are not restricted to those:

Agricultural & Horticultural

Fence posts, gates and gate posts, vine and fruit tree stakes etc.

Building & Construction

Structural elements, such as timber frames, roof trusses, cladding, battens etc.

Garden & Landscaping

Decking, pergolas, gazebos, palisades, wind breakers, garden furniture, playground equipment, sand boxes, wood-block paving, lawn edging, etc.

Infrastructure

Utility poles, sleepers, bridges, soil retaining walls, sound barriers, deer fences, etc.

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Treatment Specifications

Use Class 2, 3 or 4?
INTERIOR and **EXTERIOR** environments are different - so treated wood performance levels should reflect this

INTERIOR	EXTERIOR	
USE CLASS 2	USE CLASS 3(u)	USE CLASS 4
Above the ground or DPC, covered	Above the ground (uncoated)	Ground or fresh water contact (and exterior structural support)
Internal construction timbers within the building envelope: Tiling battens, framing and roof timbers, internal joists, sole plates.	External construction timbers: Deck boards, fence rails and boards, cladding (including battens).	External construction timbers: Fence posts, agricultural timbers, retaining walls, playground equipment, decking posts, joists and sub-structures.

WPA Wood Protection Association

Make sure it's 4 Use Class 4 GROUND CONTACT

The efficacy of **Wolmanit® CX** timber treated for use classes 1-4 (according to EN 335) has been tested in compliance with the appropriate laboratory or field tests as required in EN 599. The product can be used for the treatment of wood according to BS 8417.

- Use Class 1** - interior timber, permanently dry
- Use Class 2** - interior timber, not directly exposed to weather
temporary moisture possible
- Use Class 3** - external timbers used above ground contact, exposed to the weather
- Use Class 4** - external timbers, timber in permanent ground contact

Treated Timber Appearance and Maintenance

Timber treated with **Wolmanit® CX** preservatives has a mild green color. **Wolmanit® CX** treated timber is also available in a range of brown colors.

Brown coloration can be achieved with the additive **Wolmanit® ProColor Brown** in vacuum pressure treatment.

Due to the natural variability of the relative proportions of heartwood and sapwood, freshness, weathering and processing of the timber can mean that there may be some variation in the distribution

of the surface color. In resinous softwoods, e.g., redwood, blue, green or white resin spots might occur especially around the knots. Resin spots usually fade away as the timber is exposed to the weather.

Both green and brown treated timber will gradually change to a warm brown color and later eventually fade to a faint silver/grey color in time. The weathering of the surface color does not indicate loss of preservative protection.

The appearance of weathered **Wolmanit® CX** treated timber can be refreshed by using a suitable coating product. Follow the coating manufacturer's instructions for correct application.

A water-repellent coating may also be used to reduce cracking and moisture absorption to prolong the appearance and service-life.

Approvals

The biocides contained in **Wolmanit® CX** are authorized by the BPR (Biocidal Products Regulation), registered under the HSE (Health and Safety Executive) in the UK and approved by leading quality schemes across Europe.



Independent quality testing confirms that **Wolmanit® CX** active ingredients achieve the best penetration and fixation levels in timber leading to proven long-term durability.

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When treated according to the end use specifications **Wolmanit® CX** treated timber has long-term protection against wood destroying fungi and insects on internal and external structural timber with and without ground contact.

Handling and Storage

Use suitable gloves when handling treated timber to protect skin. Use goggles to protect the eyes from flying particles when sawing, drilling or machining timber. Use a suitable dust mask when machining causes airborne sawdust to prevent inhalation of sawdust.

After completion of the work and before meals, smoking and bathroom visits, hands and exposed skin should be washed thoroughly with water or a suitable cleaning agent.

National legislation pertaining to pollution prevention of soil, water and air is to be observed during the entire storage time.

Handle freshly treated wood in areas with good ventilation.

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.

Within 24 hours of the treatment the fixation of the preservative has usually finished to a large extent. During that period the freshly impregnated timber must be protected from outdoor weathering. The recommended fixation time for in-ground timber applications can be up to 2 weeks (excluding frost periods).

Treated timber should not be dispatched until it has been suitably dried on the site of the processor. Only surface dry and drip-free treated timber should be used. When treated timber is used in construction applications it is always best to be dried down to the in-service moisture content prior to fabrication.

Post-Treatment

Avoid all unnecessary cutting, machining, notching and boring of the timber after treatment.

Do not machine fence posts especially on the end put to the ground. If the top end of the post is cut or machined the surfaces revealed should be brushed with a suitable end grain preservative.



Follow the end grain preservative manufacturer's instructions for correct application.

Fasteners & Fittings

Timber treated with **Wolmanit® CX** preservatives can influence the corrosion of metal fasteners. Under conditions where timber is exposed to moisture the corrosion of certain types of fasteners can occur. It is generally advised to use fasteners of a quality that matches the life expectancy of the timber construction.

Wolman generally recommends the usage of highly corrosion resistant materials such as stainless-steel fasteners in structures demanding high security, in supporting structures and in structures not easily accessible after construction for example, balconies, bridges, support beams under the structures and timber frames inside the walls.

In decking, cladding and similar applications, hot dipped galvanized fasteners can be used. It is advisable to drill pilot holes to lessen the risk of damage to the protective layer of hot dip or specially coated fasteners. Do not mix fasteners, connection slates, iron angles etc. made of different metals to avoid electrochemical corrosion.

Do not use aluminum fasteners in contact with timber treated with **Wolmanit® CX** preservatives.

Gluing

Wolmanit® CX pressure treated timber is compatible with most wood glues once dry. Please choose glue according to the usage application and conditions (moisture, temperature etc.) described by the glue manufacturer.

Surface Coatings

Wolmanit® CX pressure treated timber is compatible with most coating products that are available on the market. Follow the coating manufacturer's recommendations before applying a coating product to **Wolmanit® CX** pressure treated timber.

Some discoloration may occur especially if the timber is not sufficiently dry before coating.

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End Use Considerations

Wolmanit® CX impregnated timber and color treated timber can stain light colored adjacent faces especially when exposed to draining water. Reduce contact between the timber and adjacent surfaces by design to prevent surface discoloration.

Waste Disposal

Wolmanit® CX impregnate timbers in all use class applications are classified as hazardous waste in the UK. Timber residues including sawdust must be collected and disposed of in accordance with the national waste disposal legislation and any regional and/or local authority requirements.

Waste **Wolmanit® CX** treated timber, its sawdust or redundant timber must be disposed of at an authorized waste disposal site.

Quality Management System

Wolman Wood and Fire Protection GmbH is certified according to the quality management system standard DIN EN ISO 9001: 2015.

The ISO certification confirms the high priority of product quality, innovation and customer focus.



General Instructions

Wood preservatives contain biocidal ingredients for the preventive protection of wood against attack by wood-destroying fungi. They should therefore only be used when the protection of wood is mandatory or necessary. Misuse may be injurious to health and cause damage to the environment.

- Always wear gloves when handling wood.
- Do not use in direct contact with drinking water, food and feed.
- Not for use as animal litter.
- When processing (e.g. sawing or grinding) or disposing of treated wood, the legal limits and regulations must be observed.

Restrictions of use

Direct losses to soil, sewer or water and any losses of the product, including any contaminated water/soil must be collected for reuse or disposal in accordance with local/national/international requirements.

The product must not be applied on wood for use class 4, that is foreseen to be placed directly in water bodies.

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.

If you are unsure of the correct application, please contact a Wolman representative for further information.

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

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