

Assembly and maintenance instructions, wooden structures treated with NT Deco

This document contains recommendations related to the storage and installation of solid wood elements treated with NT Deco manufactured by Nordtreat Oy, as well as recommendations for the final clean-up and maintenance.

Transfer and storage of fire protected CLT- and massive wood elements

When transferring CLT- and massive wood elements, care must be taken to ensure that the elements do not get wet. Especially at temperatures below 0°C, the transfer time of the elements should be as short as possible. During on-site storage and assembly of structures, the conditions must be as follows:

- Air temperature + 5°C - + 35°C
- Humidity below 65%

When installing flame retardant treated CLT- and massive wood elements, the same practices, which are used while installing any pre-finished constructional elements should be considered: The elements must be handled with care and all scratches, dents and other installation damages should be avoided. The elements should be stored in an upright position and nothing should be stored on top of them. Repairing of these damages afterwards, especially with translucent surface treatments, is always challenging and the repaired areas can most probably be seen in the final surface.

An industrially fire protected CLT- and massive wood element is a finished, high-quality final product considering the surface and should be treated as such.

Assembly

Stainless steel fasteners and high-quality tools must be used for the installation of flame retardant treated wooden structures.

Storage and disposal of flame retardants and flame retardant products

Empty and dry Nordtreat product containers can be disposed of with mixed waste.

Wood material treated with Nordtreat flame retardants can be disposed of as normal wood waste.

Surplus flame retardants should be stored in a closed container and disposed of in accordance with valid local and national regulations, as well as all normal coatings and

paints. All surplus fire protection products should be collected and not discharged into drains or to the ground.

Nordtreat's flame retardants should be stored in a closed container away from sunlight. The storage temperature is +5 to +30°C.

Final clean-up

Interior wood surfaces treated with NT Deco should be cleaned during the final clean-up to remove any worksite dirt and excess flame-retardant residues. Exterior wood surfaces treated with NT Deco do not otherwise need to be cleaned in the final clean-up (saw dust etc. related to the modifying of the wood need to be removed of course), but structures protected from rain, e.g. the surfaces on the inside of balconies, must also be cleaned as well as the interior surfaces.

These possible excess residues on the surface are not harmful or toxic.

NT Deco flame retardant treated dried surface should be wiped with a damp microfiber cloth, the surface should not be rubbed. The microfiber cloth is soaked in warm water and swirled / squeezed dry. The microfiber cloth should be rinsed frequently in clean warm water. After the final clean-up, the surface should be allowed to dry in peace.

The final clean-up of fire-protected surfaces and the methods used in it must be recorded in the maintenance / service book of the property or in the documentation related to the handover.

Basic interior maintenance

Interior surfaces treated with NT Deco do not require separate maintenance or servicing procedures when they are not exposed to weathering.

If you want to remove any dust that may have accumulated on the surfaces, the surface can be cleaned by vacuuming, and a soft brush nozzle must be installed to the vacuum cleaner.

Liquids, etc. splashing on the surface should be dried immediately by wiping off with a soft microfiber cloth, not by rubbing. If the splash leaves a stain or has time to dry, the surface can be cleaned with a soft microfiber cloth dampened (not wet!) with warm water. Wipe, do not rub.

If the surface is mechanically damaged and the damage is deeper than 3 mm, the damaged area must be repaired as soon as possible with a treatment combination suitable for the wood material in question and the NT Deco used for the repair must be tinted to the original tone. Follow the latest treatment instruction document for NT Deco for repairs.

Repairs made to mechanically damaged parts must be recorded in the maintenance / service book of the property.

Basic exterior maintenance

Exterior surfaces treated with NT Deco must be visually inspected annually.

Mechanical damages which are found during the annual inspection and reach through the flame retardant treatment (deeper than 3 mm), must be repaired immediately. Use a treatment combination suitable for the wood material in question and the NT Deco used for the repair must be tinted to the original tone. Follow the latest NT Deco treatment instructions document.

Fire protected exterior surfaces should be cleaned annually. Accumulated dirt can be removed by brushing with a soft brush during the normal cleaning and maintenance of the property. Any splashes and dirt stains can be removed by wiping (not rubbing) with a microfiber cloth. If necessary, the microfiber cloth can be dampened with warm water. If the stains cannot be removed with dampened microfiber cloth, a mild detergent can be used.

Make sure the conditions for the maintenance match the required conditions for the NT Deco treatment. These limit values for temperature and air humidity can be found in the latest NT Deco treatment instruction document and TDS.

All the cleanings, inspections and repairs must be recorded to the maintenance / service book of the property.

Exterior maintenance interval

NT Deco flame retardant treated exterior wood surfaces exposed to direct weathering have a maintenance interval of 5 to 10 years.

The first maintenance inspection should be performed 5 years after completion and maintenance treatment itself no later than 10 years after completion. In the first maintenance inspection, the time for the maintenance treatment can be estimated in more detail.

Information on inspecting NT Deco fire-protected surfaces can be found in the latest NT Deco EXT inspection instruction and in the service interval documents.

It is advisable to order a maintenance inspection from the supplier or from an authorized operator.

Brush loose dust and dirt off the surface. Wash and / or sand the surface lightly before maintenance treatment. Warm water and a mild detergent can be used for washing the surfaces. Washing is performed with a soft brush and the surface must be rinsed thoroughly. Nordtreat Finland Oy will provide information on recommended detergents.

Inspect surfaces for mechanical damages and make wood repairs / replace mechanically damaged wooden parts if necessary.

When starting maintenance work itself, make sure that the surface is dry and clean. Apply NT Deco by spraying or with a paint brush with a wet application rate of 175 g / m² (2-3 coats). NT Deco must be tinted to the original tone of the surface. In the maintenance inspection, the required amount for NT Deco maintenance treatment can be specified, if there is a need to deviate from the default treatment.

To achieve an even result, treat uniform surfaces at once. Maintenance with other coatings is not recommended, as the fire protection certification of the treatment combination is only valid for the original treatment combination and the fire protection properties may be significantly reduced if non-original coatings are used.

Maintenance treatment methods used, used amount of flame retardant and conditions should be documented and attached to the maintenance / service book of the related property.

Follow the up-to-date NT Deco On-Site treatment instruction document for maintenance treatment.

If you need more information, contact Nordtreat Oy's technical support.

In Helsinki November 15th 2022

Pekka Hurri

Technical Director

The instructions and values in this maintenance manual are based on information obtained from laboratory tests and trials, as well as information obtained from actual applications. Nordtreat is responsible for ensuring that the quality of the product complies with Nordtreat's quality system.

Nordtreat is not liable for damages resulting from incorrect or improper use of the fire protection product. Nordtreat is also not responsible for fire protection treatment, as the conditions and methods of fire protection treatment vary. The prevailing conditions and methods related to fire protection must always be documented in accordance with the instructions of Nordtreat and the authorities.

NT Deco is for professional use only. Nordtreat requires that the actual specialist using the fire protection product has received training for fire protection treatment from Nordtreat and that he is familiar with the documentation of the fire protection product: the treatment instructions, the technical data sheet and the safety data sheet.

More information can be found at www.nordtreat.fi, technical support is available at support@nordtreat.com.