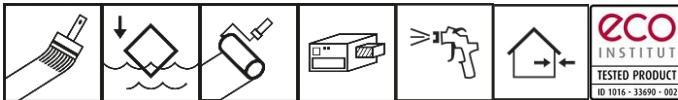


ARTICLE: JORDAN NATURE FIRE-PROTECT
ITEM-NO.: 210
SYSTEM: MINERAL, SOLVENT-FREE PRESERVATIVE FOR WOOD



PRODUCT PROPERTIES

JORDAN NATURELINE products are a purely mineral, solvent-free, bat- and bee-harmless protection for wood. Without pesticides, insecticides and biocides, it protects against various wood pests and wood-destroying fungi. The preservative is emission-free, flame-retardant and environmentally friendly by penetrating into the wood and permanently mineralising the cellulose. When dried, it is not washable.

JORDAN NATURELINE products are physically acting agents and can be used without any concerns in contact with the ground.

JORDAN NATURE Fire-Protect 210 is a clear wood preservative and is characterised by:

- Increase of the fire resistance of the treated components
- Low flammability and low smoke emission, achieves fire protection class EN 13501-1 C - s1, d0 in application with CLT cross laminated timber made of spruce
- Non-toxic, silicate-based composition

SCOPE OF APPLICATION

Suitable for coating of:

- Untreated construction timber and wood-based materials made of spruce/fir in order to increase their resistance to fire

TECHNICAL DATA

- Colour: colourless
- Gloss level: matt
- Viscosity: 12-13 s DIN 53211/ 4 mm
- Density: approx. 1,07 g/cm³

APPLICATION



Application quantity (g/m ²)	200
Quantity of applied layers	3

DRYING

Dust-dry after	2 h
Additional coat with Fire-Protect 210	60-90 min
Overcoatable after	See Special Guidance
Stackable after	24-72 h
Completely dried after	24-72 h
Cured after	7 d
(at 20 °C and 35-65 % relative humidity and depending on the applied quantity)	

INCREASE OF FIRE PROTECTION

The increase in fire resistance properties is achieved by silicification of the wood structure in the outer layers. For this purpose, a sufficient amount of the product must be applied. The silicate contained in the product creates an effect on the surface which, when exposed to flame, gives rise to a whitish crystal structure on the wood surface and thus additionally reduces the combustibility of the wood.

For the protective effect, an application of JORDAN NATURE Fire-Protect 210 with a total quantity of 600g/m² (wet film) is required on all sides. This should be done in several coats. We recommend at least 3 coats of 200 g/m² each. Between the coats, the material should be allowed to penetrate sufficiently (approx. 60-90 min) until a further coat is applied. Optimal for the application is a wood moisture content of approx. 20% to increase the absorption of JORDAN NATURE Fire-Protect 210.

Item No.: 210

STORAGE



Store material in a tightly closed container and under dry and cool conditions. Protect from frost. Do not store in zinc, aluminum, or glass containers.

Caution: The product must be stored out of reach of children.

Shelf life:

NATURE Fire-Protect 210: 12 months

(when stored in the original unopened containers)

CLEANING



Clean tools immediately after use with

- **Water**
- **Do not use acidic cleaners, such as acetic cleaner**

SPECIAL GUIDANCE

- Three coats on all sides are required for reliable protection. Especially on the end-grain side, care must be taken to ensure a saturated coating, preferably by dipping.
- Stir very well before use: approx. 2-3 minutes with a propeller stirrer and a cordless screwdriver (400 rpm).
- Do not leave containers open.
- Apply at temperatures above freezing. The temperature of the wood surface must be between +5 ° to + 50 °C.
- Apply JORDAN NATURE Fire-Protect 210 by brush, roller, pressure sprayer, spray gun, pressure impregnation or by dipping.
- When impregnating by brush / spray / roller, approx. 3 x 200 g/m² are required. After a waiting time of approx. 60-90 minutes, apply JORDAN NATURE Fire-Protect 210 again.
- Impregnation by dipping should be carried out twice for 30 minutes each, and a waiting time of approx. 3-5 hours should be observed between the dipping processes, depending on the relative humidity. The longer the wood remains in the dipping tank, the deeper JORDAN NATURE Fire-Protect 210 can penetrate. Subsequently, the amount of material introduced should be checked. Very dry wood requires longer for effective absorption than wood with residual moisture.
- Accelerating the drying process, e.g. by drying in the sun or forced drying, can lead to a drying-up effect and should therefore be avoided. In this case, cross-linking within the wood is reduced, which may lead to a reduction in the protective effect of JORDAN NATURE Fire-Protect 210. When drying, a slight gray haze effect may occur due to the silicification of material on the surface. The material is therefore primarily recommended for functional and not for decorative components.
- Further overcoating with e.g. stain, paint and others would be possible after a drying time of approx. 48 hours. However, this may reduce the fire protection properties and is therefore not recommended.
- Due to the alkalinity (like some soaps or soda products), protective gloves, goggles and/or protective clothing must be worn during processing. Avoid contact with eyes, skin and clothing, remove product residues from skin. Clean hands thoroughly at the end of work and before breaks.
- Change wetted/soiled clothing immediately, soak in water and only use again after cleaning.
- It is essential to mask glass surfaces, ceramics and natural stone beforehand. Protect surfaces that are not to be treated. JORDAN NATURE Fire-Protect 210 cannot be removed and the surfaces will be attacked. Spectacle wearers should therefore also wear protective goggles.
- Do not inhale the spray mist when spraying, use respiratory protection. In case of accidental contact with eyes, rinse immediately with plenty of water and consult a doctor if necessary. Immediately wash skin that has been in contact with JORDAN NATURELINE products with plenty of water. Use skin care products after work (moisturizing cream - for professional users, please refer to the skin protection plan).
- Caution: Totally unsuitable are containers made of zinc or galvanized steel, aluminum. These containers will be attacked. JORDAN NATURELINE products adhere very well to glass vessels and cannot be removed.

STANDARDS AND TESTS

- Flame retardant: Classified according to EN 13501-1 C-s1, d0 in combination with CLT board panels made of spruce wood
- EN 71, part 3 free of extractable heavy metals
- Emission-free – eco-INSTITUTE
- Effective against fungi - according to DIN EN 113:2004
- Resistant to alternating climates
- Termite protection
- Bat-compatible wood preservative according to the Swiss coordination office for bat protection

Safety guidance:

The information in this technical data sheet is based on the current knowledge and experience of PLANTAG Coatings GmbH. The product processor is not exempted from its own testing and testing of the products with regard to the intended use as well as the wealth of possible influences during processing and application. Existing laws and regulations are to be observed by the recipient of our products in their own responsibility. Labeling in accordance with the Ordinance on Hazardous Substances and Transport Law can be found in the safety data sheet. A legally binding assurance of certain properties or suitability for a specific purpose cannot be derived from our information. Recommendations deviating from the information in our technical data sheets are only binding for us if they have been confirmed in writing. Our terms and conditions are an integral part of this technical information sheet [Sep-21]

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