

## TECHNICAL DATA SHEET

### HOLZ PROF (HR PROF)

Fire retardant for wood in interior and exterior

#### DESCRIPTION:

HOLZ PROF (HR PROF) is ready-to-use, water-based fire-retardant chemical agent for wood. It transforms solid wood into material that is resistant to fire and flame spreading. HOLZ PROF (HR PROF) is tested and approved internationally by accredited laboratories, meets the requirements of the Exova BM TRADA A-Mark. HOLZ PROF (HR PROF) treated wood meets the highest fire classification for wood: Reaction to fire: Class B-s1, d0; B(fl)-s1(EN 13501-1), and Resistance to fire: Class K<sub>1</sub>10/K<sub>2</sub>10 (EN 13501-2). HOLZ PROF (HR PROF) deeply penetrates into wood and chemically combines with it, without preventing air circulation and forming any superficial layer. The technology allows interior and exterior end-uses, as the treated wood satisfies fire, durability, and hygroscopicity requirements. The efficiency in outdoor and Nordic climate use conditions, was determined by research method based on EN 16755. Due to its balanced formulation, HOLZ PROF (HR PROF) also helps to extend the service life of the timber and provides major durability to it.

#### RANGE OF USE:

HOLZ PROF (HR PROF) is suitable for different types of wood (hardwood and conifer), and various application ends in interior and exterior. It is indicated for the treatment of wood and wooden components in buildings and other structures either under construction or being restored. The product meets EU and international quality standards and performance requirements for fire retardants for wood. This enables to obtain the CE mark on the treated timber.

#### APPLICATION INSTRUCTIONS:

**NB:** HOLZ PROF (HR PROF) is ready for use and cannot be diluted or mixed with other products. Stir thoroughly before applying (bottom sediment does not affect the quality of the product). A trial area is always recommended before coating entirely, as there may be a slight colour change to the wood. In case of contact with surfaces not intended for processing (painted, metal, glass and other surfaces), wash off immediately with water, as it can affect the colour of the surface. Application and coverage may depend on several factors, such as type of surface, surface conditions, moisture content, method of application and climatic conditions.

**The surface to treat:** Must be dry (max 18% moisture content), clean and free from any contamination.

HOLZ PROF (HR PROF) is not for the application on surfaces previously covered with oil, paint, varnish or other film-forming or water-repellent material. Any existing coatings, including cutting emulsions, must be removed by stripping or sanding. Some emulsions used for wood cutting can lead to the colour change of the treated wood. Do not process frozen wood.

**Application conditions:** Apply at a temperature higher than +5°C (with humidity below 75%). The temperature of the product (HOLZ PROF/HR PROF) should be higher than +15°C, if necessary, it can be warmed up (till max +25°C) to facilitate the impregnation.

**Application methods:** Both, superficial and vacuum application methods, are suitable for the right treatment. HOLZ PROF works on the basis of absorption, not on the number of coats. The application method chosen must ensure the absorption required and depth of impregnation at least 1,5 mm.

**Absorption rate:** 300 gr (approx. 3,7 m<sup>2</sup> per litre) on most wood species. In the case of Western Red Cedar, the absorption requirement is higher, 400 gr (approx. 2,75 m<sup>2</sup> per litre). The rate of absorption will vary dependent on a number of factors i.e. wood species, rough sawn wood, planed all round (PAR) wood, and moisture content.

### **Superficial treatment:**

**Application tools:** Brush/roller, protective gloves and clothing. Clean tools after usage with water.

**Application:** Apply the product on all the sides of the wood. Apply 2–3 coats with an interval of 40–60 minutes. It is important to carry out the complete treatment (2–3 coats) on each side of the wood before moving on to the next to facilitate greater absorption of the product by gravity.

**Consumption:** Usually, 275 ml/m<sup>2</sup>, 3 to 4 m<sup>2</sup> per litre, for most wood species.

### **Dip & Vacuum treatment:**

**Equipment:** Plastic/stainless-steel dip tanks/baths; stainless-steel vacuum tanks

**Application & Consumption:** Individual methods, must ensure the absorption and depth of impregnation required.

**Drying:** Between 24 and 72 hours. The treated timber should be dried at ambient temperature between +12°C and +40°C (with humidity below 75%). Drying times are dependent upon type of wood and drying conditions. At low temperatures or high humidity conditions, drying times will be extended. Avoid direct sun exposure and high temperatures before drying is completed. The product is completely chemically combined with the wood after 7 days.

**Further coverage:** HOLZ PROF (HR PROF) treated wood does not require any additional protective coat. It can be over-coated where a final decorative finish is required. Before overcoating the substrate must be dry and meet the moisture content requirements of the chosen finishing product. We advise checking the moisture content of the substrate prior to application and applying top coat to manufacturer's instructions. A trial area is always recommended before the full final coat is applied.

**Restrictions:** Do not mechanically process the treated wood once the fireproofing treatment is finished. If so, the product must be re-applied on the processed areas according to the application instructions.

**Disposal:** Not hazardous wood waste. Dispose according to current national and local disposal regulations, and in accordance with European Directive 2008/98/EC.

## **HEALTH & SAFETY:**

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Keep out of reach of children. Avoid accidental contact with eyes, mouth, skin and clothing. In case of contact with skin, eyes or mouth, rinse with water. Apply in ventilated areas. In case of feeling unwell consult a doctor. The product is fire and explosion proof. For more information consult Safety Data Sheet for this product.

## **STORAGE & TRANSPORTATION:**

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Store and transport in its hermetically sealed original containers separately from food products. Keep at a temperature above +5°C, avoid direct sunlight.

## **EXPIRY DATE:**

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24 months from the date of manufacture.

Product is available in 1L, 5L, 20L, 25L, 200L, and 1000L packaging.