



Solid Protect



Product type

SPFR100 is a waterborne fire retardant designed for wood-based materials. It meets class B-s1,d0 fire safety standards and can be used for both indoor and outdoor applications.

Product description

SPFR100 is transparent, non-toxic, solvent-free, and not harmful to humans, animals, and the environment. The product is suitable for processing new and wood preservative-treated wooden surfaces, and not suitable for surfaces treated with film-forming coatings (lacquers, paints, oils). SPFR100 preserves the natural appearance of wood and can also be tinted to achieve the desired color tone.

Field of application

SPFR100 is versatile and suitable for a wide range of applications, catering to both industrial and DIY needs. It is ideal for treating wooden facades, cladding, structural timber (battens, rafters, framing elements, etc.), plywood, multilayer wood panels, CLT, log houses, and various other wood-based projects.

Surfaces treated with SPFR100 do not require post-processing with other coatings.



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Technical information

Features:

SPFR100 ensures that wooden products conform to the EN 13501-1 standard with a fire classification of B-s1, d0

Emissions:

SPFR100 doesn't contain formaldehyde, halogens, VOC and toxic substances.

Consumption:

220-250 ml/m² - Actual consumption may vary depending on the wood, the application method, environmental conditions, as well as the shape and absorptive qualities of the substrate. Fire retardancy forms in 5-7 days after processing.

Conditions of use

Before use, the substrate needs to be cleared of dust, dirt, and any loose fragments.

Ensure the following recommended conditions during the application and drying:
Product temperature +15...+25° C Air temperature +15...+50° C Relative humidity of air 20...60 % Wood humidity 10...18%



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Application

Shake or stir before applying.

If the container has been opened and closed on multiple occasions, evaluate whether the material is still suitable for its intended use.

For effective treatment, it's essential to cover the surface with at least two coats, with intervals of no less than 60 minutes between applications. The exact timing can vary based on wood type, ambient temperature, humidity, and other variables.

Drying time

Drying time is 24...48h at +20° C and average humidity of 20...60%. Actual drying time depends on the temperature, humidity, type of wood and room ventilation.

Durability

Surfaces exposed to strong UV radiation, such as south-facing facades, may experience faster fading of any added tint over time. North-facing surfaces and areas closer to the ground tend to retain color longer but are more susceptible to increased moisture exposure. For optimal fire protection, we recommend surface inspection every 7–10 years in these areas.



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Post-processing and maintenance

For the maintenance of surfaces treated with SPFR100, a single maintenance coat with an application rate of 120–140 ml/m² is generally sufficient. The coat can be applied directly with a brush, ensuring the surface is clean of dust, soil, and other debris beforehand. If the treated surface is mechanically damaged, cut or exposed areas must be re-treated with SPFR100. Proper maintenance ensures the preservation of both fire protection properties and visual appearance.

Avoid using additional finishing products together with SPFR100 without prior consultation with Solid Protect, as they may compromise fire resistance.

Cleaning of equipment

Use warm water to clean the equipment. Mild pH-neutral soap can be used with warm water for more effective cleaning.

Storage

Store at temperatures from +5 to +30 °C and out of direct sunlight.

Max storage time for the originally sealed package SPFR100 is 12 months from the date of manufacture on the packaging label.



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Waste handling and environment

Avoid releasing the product into sewer systems or onto the ground. Collect and transport all product waste to the appropriate waste handling facilities, following local authorities' regulations. Empty, dry containers can be disposed of as mixed waste.

SPFR100 treated wood products can be discarded as normal wood waste.

Safety

Please adhere to the guidelines specified in the SPFR100 Data Sheet. For the most recent Technical Data Sheet and Safety Data Sheet, contact the supplier.

Technical assistance can be sought at support@solidprotect.eu.

The data outlined above stem from laboratory studies and practical experiments. The manufacturer is not accountable for any damage caused by the improper application of the product. The manufacturer should verify the material's suitability according to their standards for quality, color, and the like. It is important to understand that the information presented is a result of our testing and expertise. It does not imply a warranty for any specific properties, nor does it define the contractual details of the product. Furthermore, this information is not exhaustive and is provided as-is, without guarantees.