



Solid Protect

# SPFR100

Transparent fire-retardant impregnation for wood

EuroClass **B-s1, d0** · EN 13501-1:2018 · Certificate ET-0388-24

## PRODUCT DESCRIPTION

SPFR100 is a water-based transparent fire-retardant impregnation for absorbent wood and wood-based materials. The product is intended for use in applications where improved reaction-to-fire performance is required while preserving the natural appearance of the wood.

When applied correctly, wood products treated with SPFR100 can achieve EuroClass B-s1, d0 classification in accordance with EN 13501-1, depending on the wood species, substrate, consumption rate and application conditions.

*The product is generally not suitable for surfaces that are lacquered, painted, oiled or otherwise sealed, unless compatibility has been confirmed in advance with Solid Protect.*

## KEY FEATURES

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|--------------------------------------|--|
| <b>01 Transparent finish</b>         | Preserves the natural appearance of the wood — no visible fire-retardant paint or lacquer required.  |
| <b>02 Certified system</b>           | Conformity certificate ET-0388-24. Tested at MEKA laboratory. Certificate valid until 13.02.2029.  |
| <b>03 Water-based composition</b>    | Solvent-free and formaldehyde-free. Not classified as hazardous under CLP.   |
| <b>04 For indoor and outdoor use</b> | Suitable for facades, cladding boards, structural timber, CLT, plywood, log houses and other absorbent wood-based materials.   |
| <b>05 Application</b>                | Brush, roller or suitable spray system. Typically 2 coats on fine-sawn surfaces and 3 coats on planed surfaces. Total consumption 210–250 ml/m <sup>2</sup> .                        |
| <b>06 Tinting option</b>             | Can be tinted with selected pigments while retaining a translucent finish. The suitability of the tinted solution depends on the chosen shade, substrate and application conditions. |

## APPLICATIONS

- Facades and cladding boards
- Structural timber: battens, rafters, framing elements
- CLT and multilayer wood panels
- Plywood and wood-based boards
- Log houses and timber structures
- Absorbent wood surfaces in indoor and outdoor use

*In the tested system, spruce wood with a thickness of  $\geq 18$  mm treated with SPFR100 has achieved EuroClass B-s1, d0 classification in accordance with EN 13501-1.*

## TECHNICAL DATA

Parameter	Value / description
<b>Product type</b>	Water-based transparent fire-retardant impregnation
<b>EuroClass classification</b>	B-s1, d0 (EN 13501-1:2018)
<b>Certificate</b>	ET-0388-24 · valid until 13.02.2029
<b>Test laboratory</b>	MEKA (Latvia, NB 2040) · test report K16/2024
<b>Tested wood species</b>	Spruce, thickness ≥ 18 mm
<b>Consumption</b>	210–250 ml/m <sup>2</sup> (≥ 240 g/m <sup>2</sup> ) · fine-sawn surface: typically 2 coats · planed surface: usually 3 coats
<b>Application</b>	Brush, roller or suitable spray system
<b>Drying time</b>	24–48 hours (+20 °C, 20–60% RH)
<b>Fire-retardant properties stabilise</b>	Usually within 5–7 days after application
<b>Application conditions</b>	Product temp +15...+25 °C · air temp +15...+50 °C · RH 20–60%
<b>Wood moisture content</b>	10–18%
<b>pH</b>	6.6–7.2 (20 °C)
<b>Density</b>	1.10–1.15 g/cm <sup>3</sup>
<b>Viscosity</b>	12.75 mPa·s (20 °C)
<b>Storage</b>	+5...+30 °C · protected from direct sunlight
<b>Shelf life</b>	24 months in unopened original packaging when stored properly
<b>Waste disposal</b>	Treated wood: non-hazardous wood waste where permitted by local regulations. Empty and dry packaging to be disposed of in accordance with local regulations.
<b>Transport</b>	Not classified as dangerous goods (ADR/RID, IMDG, IATA)

## CERTIFICATES AND TEST DOCUMENTS

Conformity certificate	Test report	Standard	Technical specification
ET-0388-24 Inspecta Estonia OÜ (Kiwa)	K16/2024 MEKA, Latvia (NB 2040)	EN 13501-1:2018 Reaction to fire — classification	TS-ET-0388 Valid until 13.02.2029

## CONTACT

### Contact and orders

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### Documents

- Technical data sheet (TDS)
  - Safety data sheet (SDS)
  - Maintenance guide
  - Conformity certificate ET-0388-24
- [solidprotect.eu/documents](http://solidprotect.eu/documents)

*The information provided is based on laboratory studies and practical tests. All data is informational and does not constitute a contractual obligation. Fire class and performance depend on the substrate, wood species, consumption rate, application and conditions of use. See current TDS and SDS at [solidprotect.eu](http://solidprotect.eu).*