



# Fontefire WF

## DESCRIPTION

A water-borne intumescent coating with highest possible fire retardant properties on wood. When subjected to heat, Fontefire WF expands and forms an insulating layer of foam.

## PRODUCT FEATURES AND RECOMMENDED USES

- The product fulfills the following fire resistance requirements: Reaction to fire. Ignitability of building products, class B-s1, d0 according to EN 13501-1:2007+A1:2009
- Contains film preservatives which protect paint film from mold growth
- One product for both interior and exterior wooden surfaces
- To be used as a fire retardant paint on interior and exterior wood, fibreboard, chipboard and plywood surfaces in industrial painting processes

## TECHNICAL DATA

Volume solids 46±2%

Weight solids 54±2%

Specific gravity 1.24 kg / litre

## Recommended spreading amounts and theoretical coverage

Recommended spreading amounts		Theoretical coverage
wet	dry	
350 g/m <sup>2</sup>	130µm	3.5 m <sup>2</sup> /l
380 g/m <sup>2</sup>	140µm	3.3 m <sup>2</sup> /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

## Drying times

	+50°C / RH 50%
Dust dry, after	5min
Touch dry, after	10min
Recoatable, after	1h

The product must be dried in oven.

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Gloss Matt.

Color shades Light grey.

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	Remove dirt and dust from the surface.  Note: The product is intended to be used onto dry new wood surfaces. For industrial use only.
<b>Recommended topcoats</b>	Ultra Pro (100 g/m <sup>2</sup> ), Akvi Top DS 25 (100 g/m <sup>2</sup> ).  Topcoating and assembling on-site: please contact Tikkurila Technical Service.
<b>Application conditions</b>	The surface to be treated has to be dry. Moisture content of wood has to be below 18% for exterior wood and below 15% for interior wood. During application the temperature of the air, surface and paint has to be over +15°C and the relative humidity of the air between 20–60%.
<b>Application</b>	Stir the paint carefully before use. Avoid high speed stirring. Avoid making foam.  Exterior spruce surface: Use 350 g/m <sup>2</sup> wet paint, recommended film thickness/layer 175 g/m <sup>2</sup> . Other exterior wood surfaces: Use 380 g/m <sup>2</sup> wet paint, recommended film thickness/layer 190 g/m <sup>2</sup> . Interior wood surfaces: Use 350 g/m <sup>2</sup> wet paint, recommended film thickness/layer 175 g/m <sup>2</sup> .  Vacuum application according to manufacturer's instructions.  For airless spraying, the product is not thinned. Recommended nozzle tip is 0.015"–0.026" and pressure min. 60–80 bar. Spray angle shall be chosen according to the shape of the object.  For air-assisted airless spraying, the product is not thinned. Recommended nozzle tip is 0.013"–0.015" and pressure 40–80 bar. Atomizing air pressure should be 1–3 bar. Spray angle shall be chosen according to the shape of the object.  For brush machine application, the product is not thinned.  Wood contains resin and other colouring extractives especially in knots. Temperature and humidity fluctuations may cause paint coat discolouration in these areas.
<b>Packing</b>	Stacking temperature of the painted objects should be below +30°C. Isolating foam should be used on stacking ready painted wood panels.
<b>Thinners</b>	Water
<b>Cleaning of equipment</b>	Water.
<b>VOC</b>	The Volatile Organic Compounds amount is 19 g/litre of paint.
<b>HEALTH AND SAFETY</b>	Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets. A health and safety data sheet is available on request from Tikkurila Oyj.  <b>For industrial use only.</b>



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The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.