

# Fontefire WF Clear

## DESCRIPTION

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

## PRODUCT FEATURES AND RECOMMENDED USES

- Fontefire WF Clear has fire reaction class B-s1, d0, according to the standard EN 13501-1:2007+A1:2009, the highest possible for wood material.
- The capability to dry Fontefire WF Clear both in ovens and in room temperature environments makes the product suitable for different kinds of users.
- Fontefire WF Clear highlights the beauty of soft wood. The transparent white color shade follows the grains of the wood.
- Listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings.
- Can only be used in dry indoor areas. On surfaces which are exposed to any splashes or wear/abrasion top lacquer must be used.
- To be used as a fire retardant lacquer on interior wood surfaces in industrial painting processes.

## TECHNICAL DATA

Volume solids 44%

Weight solids 51%

Specific gravity 1.2 kg/litre

### Recommended spreading amounts and theoretical coverage

Recommended spreading amounts		Theoretical coverage
wet	dry	
200 g/m <sup>2</sup>	74µm	5.9 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.

Use 200 g/m<sup>2</sup> wet lacquer. Recommended application amount is 2 x 100g/m<sup>2</sup>.

### Drying times

100 g/m <sup>2</sup>	+23°C	+50°C
Dust dry, after	20–25 min	5–10 min
Touch dry, after	25–30 min	10min
Recoatible, after	12h	1h

It is highly recommended to dry the product in oven.

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

Gloss Full matt.

Color shades Transparent white.



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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.
<b>Recommended topcoats</b>	Akvilac WF 10 (60–70 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 15%. During application the temperature of the air, surface and lacquer has to be over +15°C and the relative humidity of the air between 20–60%.
<b>Application</b>	Stir the lacquer carefully before use. Avoid high speed stirring. Avoid making foam.  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.  For curtain coating, the product is not thinned. Avoid too high pumping pressure and flowing speed.  Wood contains resin and other colouring extractives especially in knots. Temperature and humidity fluctuations may cause discolouration in these areas.
<b>Packing</b>	Stacking temperature of the lacquered objects should be below +30°C. Isolating foam should be used on stacking ready lacquered 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. VOC 2004/42/EC (cat A/e) 130 g/l (2010)

**HEALTH AND SAFETY** 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.

### For industrial use only.

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.