

## Fontefire ST 60

### DESCRIPTION

A waterborne one component intumescent coating. When subjected to heat it expands and forms an insulating layer of foam.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Used as a fire retardant paint on internal conditions Z2 for steel structures .
- ◆ Recommended to be applied on-site during dry conditions. Components painted in workshops must be topcoated before taken outdoors.
- ◆ Product can provide up to 90 minutes fire resistance.

### TECHNICAL DATA

**Volume solids** 72 ±2%

**Weights solids** 74 ±2%

**Specific gravity** 1.4 kg / l

**Product code** 006 6760

### Recommended film thicknesses and theoretical coverage

Amount g/m <sup>2</sup>	Recommended film thicknesses		Theoretical coverage	
	dry	wet	l/m <sup>2</sup>	m <sup>2</sup> /l
588	0.3 mm	0.42 mm	0.42	2.4
966	0.5 mm	0.69 mm	0.71	1.4
1652	0.85 mm	1.18 mm	1.18	0.85

Maximum wet film thickness is 1.2 mm in a single spray coat.

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

### Drying times

DFT 500µm	<b>+20°C, RH 50%</b>
Recoatable, after	By itself 4–6 h
Recoatable, after	With topcoat 16 h

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

**Finish** Matt.

**Colours** White.

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### APPLICATION DETAILS

<b>Surface preparation</b>	<p><u>Primed surfaces:</u> Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO 12944-4)</p> <p><b>Note:</b> An approved intumescent coating system always requires a primer coat.</p>
<b>Primer</b>	Fontecryl AP (40µm), Fontecoat EP 50 (60µm), Temaprime EUR (40 µm), Temacoat GPL-S Primer (60 µm) and Temacoat Primer (60µm).
<b>Finish</b>	Nova 20, Fontecryl SC 50, Temadur 50 and Temalac FD 50 about 50–60 µm .
<b>Application conditions</b>	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +15°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of the steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying.
<b>Application</b>	<p>Application by brush, roller or airless spray. Mix the paint thoroughly before use. Recommended dry film thickness is approximately 500 µm/layer. Diameter of the paint hoses should be at least 10mm, the length should not exceed 60m. Nozzle tip size 0.019"–0.025", turnable nozzle is recommended. Nozzle shall be chosen according to the efficiency and output of the equipment. Nozzle pressure 175–210 kg/cm<sup>2</sup>. Spray angle shall be chosen according to the shape of the object.</p> <p>Application with roller and brush is typically 416 µm WFT (300 µm DFT).</p>
<b>Control of film thickness</b>	<u>Before overcoating</u> should the dry film thickness of the coating be controlled with a reliable test method in accordance with SFS ISO 19840 and a record should be drawn.
<b>Packing and touch-up of damages</b>	Components painted in work shop should be covered with a plastic film during transport and storage and packed in order to avoid impresses. During winter season components should be dried 48 hours in room temperature before taken outdoors. Damages shall be repaired immediately in the same way as originally.
<b>Thinner</b>	Water.
<b>Cleaning of equipment</b>	Water.
<b>Storage</b>	6 months in dry and cool conditions.
<b>VOC</b>	The Volatile Organic Compounds amount to 17 g/litre of paint.
<b>HEALTH AND SAFETY</b>	<p>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.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p> <p>For professional use only.</p>

mko121015/tmk030215/006 6760


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.



CE  
ETAG 018-2

	
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Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA	
Declaration of performance:	TIK-066-5001
Reaction to fire:	ETA 15/0442
Resistance to fire:	ETA 15/0442
Dangerous substances:	ETA 15/0442
Harmonized technical specification:	ETAG 018-02
Identification number of the notified body:	1121
Intended use:	Fire protection product

TIKKURILA OYJ

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