

## ***A water base intumescent fire protection coating***

**7000**

### **Description:**

Corrofire 7000 is a water base intumescent fire protection coating with an excellent thermal efficiency in today's market. From a design standpoint, it is now possible to achieve 60 Minutes fire protection to steel structural with only 1.5 mm. thicknesses.

### **Recommended use:**

As an intermediate and topcoat on primed steel to protect that from fire.

### **Service temperature:**

**Dry:** Maximum 50°C

### **PHYSICAL CONSTANTS:**

<b>Colors/Shade:</b>	White
<b>Finish:</b>	Flat
<b>Volume Solid:</b>	54%
<b>Theoretical spreading rate:</b>	1.54 m <sup>2</sup> /liter – DFT: 350 µm
<b>Specific gravity:</b>	App. 1.3 kg/liter
<b>Surface dry:</b>	Max. 2 hours at 20°C (ISO 1517)
<b>Dry to touch:</b>	Max. 4 hours at 20°C
<b>Fully cured:</b>	15 days
<b>Shelf life:</b>	1 Year (25°C) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.

### **APPLICATION DETAILS:**

<b>Application method:</b>	Airless sprays	Brush (touch-up)
<b>Thinner (max. vol.)</b>	Fresh water (5%)	Fresh water (5%)
<b>Nozzle orifice:</b>	0.023	
<b>Nozzle pressure:</b>	260 bar / 3770 Psi	
	(Airless spray data are indicative and subject to adjustment)	
<b>Cleaning of tools:</b>	water	
<b>Indicated film thickness, dry:</b>	350 microns	
<b>Indicated film thickness, wet:</b>	650 microns	
<b>Recoat interval, min:</b>	8 hours (20°C)	
<b>Recoat interval, max:</b>	None	
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**CORROCOAT  
EGYPT**  
home of engineering coating

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### **SURFACE PREPARATION:**

Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning.

Abrasive blasting to Sa 2½ SSPC-SP-10, with a sharp-edged surface profile corresponding to ISO Comparator, Medium (G) corresponding to Segment 2.

### **APPLICATION AND CURING CONDITIONS:**

The surface must be completely clean and dry at the time of application. And its temperature must be above the dew point to avoid condensation. Minimum temperature for curing is 5°C.

At the freezing point and below, be aware of the risk of ice on the surface which will hinder the adhesion. High humidity and/or condensation during application and the following 16 hours (20°C) may adversely affect the film formation.

In confined spaces provide adequate ventilation during application and drying.

**PRECEDING COAT:** Corrozinc phosphate.

**SUBSEQUENT COAT:** Corrofire 7000.

### **REMARKS:**

#### **Film thicknesses:**

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval. Normal range is 350 microns. For more than 1 hours fire protection more coats should be applied.

#### **Thinning:**

The type and amount of thinner depends on application conditions, application method, temperature, ventilation, and substrate. Di-ionized water is recommended in general.

#### **Recoating:**

A completely clean surface is mandatory to ensure inter coat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent. Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

### **SAFETY:**

Handle with care. Before and during use, observe all safety labels on packing and paint containers, consult Corrocoat material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance swallowed.

Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

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