

Revised 04/2025 Issue 18

PRODUCT DESCRIPTION

FIRETEX® FX5120

WATER BASED INTUMESCENT

A water based thin film intumescent coating.

TCEP free

RECOMMENDED USE

FIRETEX FX5120 is designed for application by airless spray, to provide fire resistance for periods of up to 120 minutes on structural steel. For use in internal dry controlled environments without topcoat (C1 according to ISO 12944-2) and external urban or uncontrolled internal environments with topcoat (C3 according to ISO 12944-2).

PRODUCT TECHNICAL DATA				APPROVALS & ENDORSEMENTS
Volume Solids:	69% ± 3% (ASTM-D2697-03)			Independently fire tested and approved to major European and national
Weight Solids:	73% ± 3%			• EN 13381-8 (ref: ETA 20/1226)
VOC:	3.35 g/l calculated from formulation to satis Solvent Emissions Directive.		ulation to satisfy EC	• EN 13381-9 • CE Mark Number: 2812-CPR-GA5016
	satisfy EC Solvent Emissions Directive.			SURFACE PREPARATION
Colours:	White			Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.
Cleaner/Thinner:	Water Thinning will have an adverse effect on sag tolerance.			
Pack Size:	Yack Size: Single component material:			APPLICATION CONDITIONS
Densitu	20 litre (27.8 kg) units Weight will vary with colours and density.			FIRETEX FX5120 must be applied in a dry internal environment. It must not be exposed to condensation, damp or wet conditions during or after application.
Shelf Life:	Insity: 1.390 kg/l (may vary with colours). Ielf Life: 10 months from date of manufacture, stored in originally sealed containers in a cool and dry originally sealed containers in a cool and dry originally sealed containers.			In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.
Both transportation and long term storage of the product must be in a covered environment, out of direct sunlight and in the temperature range 5° to			term storage of the d environment, out of perature range 5° to	At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.
Recommended Application Methods:				A minimum ambient air temperature of 5°C is required to ensure proper film formation.
Airiess Spray, Brush Typical Thickness:				Relative humidity should not exceed 85% to ensure proper film
Recommended Spreading Rate Per Coat				Extended overcoating times may be required at low temperatures
Airless Spray		Spray	Brush	and/or high film thicknesses.
Dry	1000) µm	300 µm	Application may be undertaken outdoors in environments which can be guaranteed to be dry, and offer suitable temperature and humidity conditions for the coatings to dry.
Wet	1449) µm	435 µm	
Theoretical Consumption*	cal 2.014 l ption* 1.449		0.604 kg/m² 0.435 l/m²	Under these external application conditions, sufficient measures shall be taken to protect the coatings from contaminants such as dust sand
Theoretical Coverage	ge* 0.50 0.69	m/kg² m/l²	1.64 m/kg² 2.30 m/l²	moisture etc during the drying process.
* Maximum sag tolerance typically 1800µm wet (1242µm dry) by airless spray.				Occasionally impaired film formation such as cracking may occur on edges of flanges and external or internal angles of structural steel, depending on geometry, over-application and ambient conditions. This does not detrimentally affect the fire performance properties of the
AVERAGE DRYING TIMES				
	+ 15°C + 23°C		C	product.
Dry to touch	5 hours	5 hours 3 hours		
Dry to handle	This will depend on the total thickness of FIRETEX FX5120 to be applied			

No more than two coats by airless spray should be applied within any 24 hour period. These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

6 hours

24 hours

To Recoat

www.sherwin-williams.com/protectiveEMEA

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer



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APPLICATION EQUIPMENT

Airless Spray

Tip Size:	0.48 – 0.58mm (19 – 23 thou) depending on application requirements
Operating Pressure:	175kg/cm² (2500 psi)

Petrol Unit

Tip Size: 0.48 – 0.58mm (19 – 23 thou) depending on application requirements

Operating Pressure: 175kg/cm² (2500 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicator's responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Sherwin-Williams should be consulted.

Recommended Equipment:

Use 3/8" (9.53mm) ID fluid line where lengths in excess of 10 feet (3 metres) are required. In-line gun or pump filters should not normally be used.

Brush

The material is suitable for brush application, but due to the nature of the material a ribbed appearance may result.

Application of more than one coat may be necessary to give equivalent dry film thickness of a single spray applied coat.

RECOMMENDED SYSTEMS

Primer

Several primers have been fire tested and approved for use under FIRETEX FX5120.

Please consult Sherwin-Williams for detailed information.

Must not be applied directly to galvanized steel and zinc rich primers.

Topcoats

If it can be guaranteed that application and subsequent in-service conditions will be in a C1 environment as defined in ISO 12944-2, then no topcoat is required.

For any other situation a topcoat must be applied, consult Sherwin-Williams for advice.

Sher-Cryl M770, FIRETEX M71V2, Acrolon 7300, Acrolon C137V2 or Acrolon C237

The above products should be used for subsequent re-decoration.

ADDITIONAL NOTES

In common with other water based coatings, the drying of this material is retarded by high humidity conditions. Lack of air movement also slows down the drying process, and under such conditions it is advisable to introduce some method of circulating air over the coated surface in order to speed up the drying. A ventilated air speed of 2 metres per second is recommended.

Numerical values quoted for physical data may vary slightly from batch to batch.

Maximum Allowable Dry Film Thickness

For Maximum Allowable Dry Film Thickness, consult the Sherwin-Williams Customer Service Department and ask for TAD0066.



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HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

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