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Technical Data Sheet

FIRETEX FX4002

Fire protection intumescent coating

DESCRIPTION: A one-component styrene-acrylic and solvent based fire protection intumescent material.

TYPE AND RECOMMENDED USE: Thin film fire protection intumescent coating designed to be used on steelwork requiring protection from cellulosic fire; provides passive fire protection of different purpose steelwork of industrial and infrastructure facilities; to provide fire resistance for up to 120 minutes on structural steel in a cellulosic fire in accordance with rules and regulations, fire resistance rating and fire danger class of a building. The coating can be used at operating temperatures as low as -40°C and as high as +70°C.

PHYSICAL CONSTANTS:

Colour: White

Volume solids: 72 ± 2 %

Film thicknesses: Fire protection coating's thickness is required fire resistance rating dependent (see separate sheet of FIRETEX FX4002 loading requirements). Contact your O3-Coatings representative for additional data.

Recommended wet film thickness (WFT) 2000 microns per one airless spray coat, that is equal to 1400 microns dry film thickness (DFT).

Flash Point: ≥+2°C

Density: 1.3 kg/L

Drying times:

	Drying times for 1400 microns DFT				
Substrate temperature	-10°C	0°C	10°C	20°C	30°C
To touch	120 minutes	1 hour	40 minutes	30 minutes	15 minutes
To recoat	8 hours	6 hours	5 hours	4 hours	3 hours

Drying time is thickness dependent. These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

SURFACE PREPARATION: This material should be applied on prior prepared and primed surface. Ensure surfaces to be coated are clean, dry and free from all surface contamination, with a temperature at least 3°C above the dew point. Typical surface preparation includes cleaning, degreasing (if necessary), salt removing (if necessary) and dust removing from primed surface.

APPLICATION DETAILS:

Material preparation: A one-component material, stir thoroughly within 3-5 minutes before application.

Application method: Airless Spray / Brush / Roller

Thinner: Not recommended

Nozzle size:	.021”- .027”
Operation pressure:	200-215 bar
Pump:	45:1
Cleaning of tools:	Thinner HEMPEL’S TOOL CLEANER 99610 or thinner P-4
Application conditions:	Should be applied at temperatures above -10°C; Relative humidity: 85% maximum; (In confined spaces provide adequate ventilation during application and drying).

RECOMMENDED SYSTEMS:

Primer:	GF-021; HEMPADUR MASTIC 45880; HEMPADUR 17410; HEMPADUR FAST DRY 15560; HEMPAQUICK PRIMER 13300 or other primers, in accordance with Type Approval under Federal Law №123.
Topcoat:	HEMPATHANE HS 55610, HEMPATHANE TOPCOAT 55210 or other topcoats, in accordance with Type Approval under Federal Law №123.
STORAGE:	2 years from date of manufacture. Store in dry, shaded conditions at temperature between +5°C and +30°C in hermetic original package away from UV rays and other sources of heat.
ADDITIONAL NOTE:	The material is thermoplastic. It is allowed to remain FIRETEX FX4002 un-topcoated when exposed in the internal areas of C1 environment (as defined in ISO 12944-2:1988).
PACKAGE:	20L container (26 kg net)
HEALTH AND SAFETY:	Refer to the Safety Data Sheet before use.