



PUFFIN INSTUMAX FIREPROOF 120 SB

One component, solvent-borne, physically fast drying intumescent coating for passive fire protection of structural steel against cellulosic fires in a wide range of fire durations. It is suitable for in-shop and on-site applications, interior and exterior use. Intumescent fire protection for structural steel in interior and exterior conditions, up to Type X (EAD350402-00-1106) and C4 conditions (ISO 12944-2). Suitable for I section beams, H columns, hollow sections and cellular beams

Properties

COLOR	White
GLOSS LEVEL	SATIN (35-70)
FILM THICKNESS, DRY (μm)	200-720
FILM THICKNESS, WET (μm)	280-1000
THEORETICAL SPREADING RATE (M ² /KG)	1,2 - 2,9
SOLIDS (VOL %)	73% +/- 2
DENSITY (g/cm ³)	1,3
FLASH POINT	54°C \pm 2%
PRACTICAL COVERAGE	ALLOW APPROPRIATE LOSS FACTORS

Characteristics

Recommended for :

Intumescent fire protection for structural steel exposed to internal environments up to C3 (ISO-12944). Suitable for I-section beams, H columns, hollow section beams and columns and Cellular Beams in indoor or outdoor service

It has been optimized for Onsite applications at R120. Applications in shop and/or R180 may be possible depending on the project.

Usage

- 1) Surface preparation: To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination. Oil or grease should be removed
- 2) Cleanliness : Remove salts, detergents and other contaminants by high pressure fresh water cleaning. - Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
Zinc coated surfaces: use non-metallic blast media (corundum, garnet, etc.). - Use approved primer. - Remove oil, grease and other contaminants by suitable detergent cleaning. - Remove dust, blast media and loose materials. - The surface must be dry and clean prior to application. - For approved substrates other than Carbon Steel, the substrate may require other surface preparations - Minor areas can be cleaned by power tool to St 3 provided the surface is roughened and not polished. - Maintenance and Repair - Minor areas may be hand or power tool cleaned instead of abrasive blasting.
Application instructions consult with Puffin for detailed information.
- 3) Application guideline :
Application methods
The product can be applied by:

Spray : Use airless spray.

Brush : Recommended for stripe coating and small areas.

Care must be taken to achieve the specified dry film thickness.

Product mixing : Single pack

Thinner/Cleaning : PUFFIN TINNER PFP
The product is ready for use. Thinning will affect sag resistance

Guiding data for airless spray : Nozzle tip (inch/1000): 19-23
Pressure at nozzle (min): 200bar/2900 psi

- 4) **Drying and Curing time:** Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.
- Walk-on-dry:** Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.
- Dry to over coat, minimum:** The shortest time allowed before the next coat can be applied.
- Surface (touch) Dry:** The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

SUBSTRATE TEMPERATURE (°C)	5	10	23	40
SURFACE DRY (MINUTES)	120	60	30	20
Dry to handle (hours)	48	24	16	8
Dry to over coat (hours)	24	16	8	6

Product compatibility: Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product.

Some examples are shown below.

Previous coat: Subsequent coat : Alkyd, Epoxy, Epoxy Zinc-phosphate, Zinc Epoxy (with epoxy tie coat)

Approved list of topcoats : Puffin PU Topgard Enamel, Puffin PU Topgard Duco, Puffin Acrylic Gloss Enamel

Precaution

- 1) Ensure to clean the surface before application.
- 2) **Health and safety :**
Please observe the precautionary notices displayed on the container.
Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.
- 3) **Storage :**
The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care. Shelf life at 23 °C : 18 Month(s)

Packing : 1 kg, 28 kg