



PUFFIN INSTUMAX FIREPROOF WB

Low VOC Waterborne acrylic thin film intumescent coating. Independently approved for fire protection of structural steel exposed to cellulosic fire. Can be used as mid coat or finish coat in atmospheric environments. Suitable on approved primers on carbon steel substrates. Specially designed as a reactive fire protection system for steel constructions. Designed for a wide range of I section beams, columns and hollows. Fire tested and approved to BS 476 part 20/21.

Properties

COLOR	White
GLOSS LEVEL	SATIN (35-70)
FILM THICKNESS, DRY (μm)	210-690
FILM THICKNESS, WET (μm)	300-1000
THEORETICAL SPREADING RATE (KG/M ²)	1,4-0,7
SOLIDS (VOL %)	69% +/- 2
DENSITY (g/cm ³)	1,4
FLASH POINT	101°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

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

Service temperature: - Indoor conditions.

Usage

1) Surface preparation:

To secure lasting adhesion to the subsequent product 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 2^{1/2} (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. Minor areas may be hand or power tool cleaned instead of abrasive blasting.

Application instructions for detailed information, consult with Puffin.

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 :

Fresh water

The product is ready for use. Thinning will affect sag resistance and can delay drying times.

Guiding data for airless spray :

Nozzle tip (inch/1000): 19-23

Pressure at nozzle (minimum): 200 bar/2900psi

- 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)	10	23	40
SURFACE DRY (hour)	4	2	1
Dry to handle (hours)	16	6	4
Dry to over coat (hours)	16	6	4

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 : 9 Month(s)

Packing : 28 Kg Set