

# FlameLOC FB601

## Fire Safe Coating –Steel protection

FlameLOC FB 601 is a fluid applied, intumescent fire barrier coating for the fire protection of steel structure. A decorative, thin film intumescent coating designed for fire protection of structural steel applications for full scale applications. The coating, when exposed to fire, intumesces and expands many times to form an insulating char protecting the steel against the high temperature.

### Features

- Decorative aesthetic finish (White colour)
- Provides durable, architectural finish.
- Compatible with most resin/polymer based topcoats
- Good resistance to alkalis, salt solutions and diluted acids
- Non-Hazardous Composition and Non combustible
- Free of fibres and asbestos
- Low VOC, non-toxic and environmentally LEED compliant
- Fire retardant ( ASTM E 84 Class A . ASTM E199 -120 minutes )
- Thermal resistant, Resistant to movement and continuous contact with moisture
- Non toxic and high impact on building longevity
- Solvent free, safe for use in confined space
- Durable, hard -wearing, smooth finish

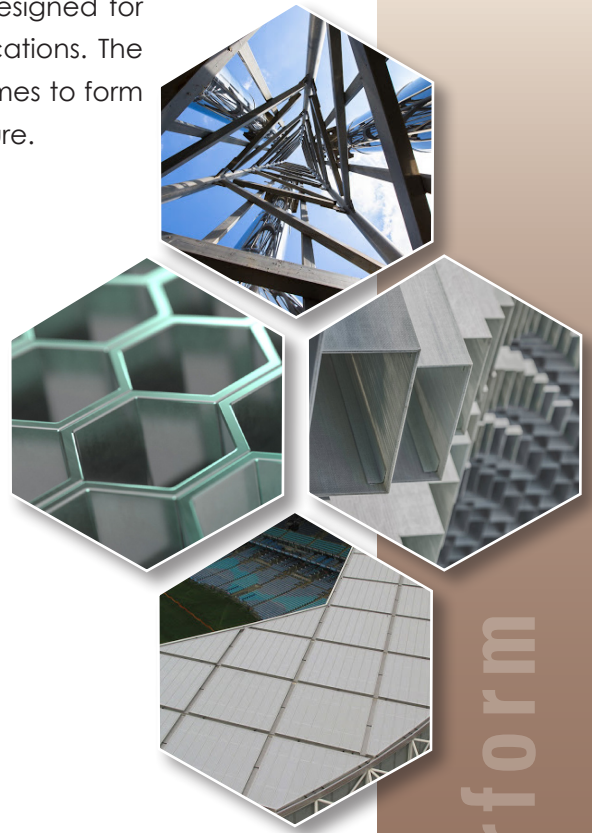
### Application field

Facades, Roof, Curtain walls, Terrace to act as a complete barrier against air, water, vapor, fire and UV. Provides Moisture protection behind wall claddings of ACP, brick, Insulation systems, various other external façade finishing. Typical application projects with maximum fire resistance requirements. Envelope for high rise and rise residential, commercial and institutional towers, buildings and complexes.

### PROPERTIES

Property	Value	Test Method
Solids by weight:	>65%	ASTM D 1259
Hardness:	≥ 70 Shore A	ASTM D-2240
Tensile Strength	≥ 4 Mpa	ASTM D-412
Pull of strength	≥ 2N/mm <sup>2</sup>	ASTM D 4541
Flash Point:	None	
Low -Temp flexibility	-20°C	ASTM D 1970
VOC	≤ 50 g/l	ASTM D 3960/2369
Application temp	5°C - 50°C @Less than 85% relative humidity	
Coverage:	1.2 L yields 1m <sup>2</sup> area @750-1000 micron Thickness	
Dry Time:	Dry to touch in 4 - 6 hours, 12 - 24 hours full cure	
Shelf Life:	12 months	

All values given are subject to ±5-10% tolerances



engineered to perform

## Installation

### (a) Surface Preparation

Surfaces to be coated with FlameLOC FB 601 must be clean, dry and free of any oil, grease or dirt. The loose existing coatings should be removed well. Clean by wire brush and use pressured air to blow out all the dust. Prefer to apply IB646 on to a clean, undamaged, dry and primed (Organix PrimeBOND) steel surface.

### (b) Application

Tools or equipments to be used for the application

1. Roller (Short nap roller)
2. Brush (Good quality synthetic bristle brush)
3. Spray (Electric Airless Sprayer, 1gpm, 3,000 psi, .027 or.031 tip)

### (c) Mixing

Mix with a paddle and drill at low speed for 3 minutes for optimum consistency.

### (d) Coating Application

Apply the FlameLOC FB 601 coating by brush, roller or airless spray, using a multi pass technique to ensure even coating application to all sides of the substrate. In most conditions, it is advantageous to apply two thin coats rather than one thick coat. Required dry film thickness is dependent upon the shape of the steel member. Please consult Organix Support for coatings coverage and thickness.

Build up thickness to achieve loading required in several quick passes. However if apply in multiple layers, ensure that the previously applied coat is dry particularly in the junctions.

Final drying time before top coating (if require for exposed situations) is a minimum of 24 hours. These figures are based on constant conditions and fluctuations up or down give variations to the drying time. If overnight condensation causes wetting a further fully drying period should be allowed.

Top coating : Top coats may be required when exposed /a desired colour needed. The use of primer and top coats have been tested to the ASTM E84 and ASTM 2768. Testing data shows that use of top coats have no affect on the burn performance of flame loc FB 601

**PACKING:** 20 L Pail

**STORAGE:** Store materials between 10°C-50°C with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures in direct sunlight. Shelf life under normal conditions in closed container will be 24 months.

**WARRANTY** On preapproved, qualified applications, when you use an approved applicator, a 25-year warranty is available. Contact us for complete warranty information.

**HEALTH AND SAFETY** Keep out of reach of children. Ensure to maintain good ventilation during application and drying process. In case of skin contact, wash with soap and water or a recognized skin cleaner. Avoid contact with eyes. In case of contact with eyes rinse immediately with running water and seek medical advice. If product is ingested drink plenty of water or milk. Do not induce vomiting at any time. Seek medical advice. Refer to the Material Safety Data Sheet (MSDS) for detailed information about the product and transportation and classification criteria.

