FIRETEX® FX RANGE INTUMESCENT SPECIFICATION GUIDE

SHERWIN WILLIAMS®

Corrosivity Category	Internal / External	Application Environment	Surface Prep	Coat	Products	Nominal DFT (µm)
FIRETEX FX5090 - Water-borne						
C1 - C2	Internal	On-site	Sa2½	Primer[1]	Macropoxy™ 250	75
				Intumescent	FIRETEX FX5090	As per MTO[2]
				Topcoat	Acrolon™ 750 or Acrolon 775	75
FIRETEX FX2005 - Solvent-borne						
C1 - C2	Internal	On-site / Off-site	Sa2½	Primer[1]	Macropoxy 250	75
				Intumescent	FIRETEX FX2005	As per MTO[2]
				Topcoat	Acrolon 750 or Acrolon 775	75
C2 - C3	External	On-site / Off-site	Sa2½	Primer[1]	Macropoxy 250	75
				Intumescent	FIRETEX FX2005	As per MTO[2]
				Topcoat	Acrolon 750 or Acrolon 775	75
FIRETEX FX6002 - Patented ultra-fast dry						
C1 - C2	Internal	On-site / Off-site	Sa2½	Primer[3]	Macropoxy 250 or Zinc Clad® 6001 or Zinc Clad 1001	75
				Intumescent	FIRETEX FX6002	As per MTO[2]
				Topcoat[4]	Acrolon 750 or Acrolon 775	75
C3	Internal / External	On-site / Off-site	Sa2½	Primer[3]	Macropoxy 250 or Zinc Clad 6001 or Zinc Clad 1001	75
				Intumescent	FIRETEX FX6002	As per MTO[2]
				Topcoat	Acrolon 750 or Acrolon 775	75
C4	External	On-site / Off-site	Sa2½	Primer[1]	Macropoxy 250 or Zinc Clad 6001 or Zinc Clad 1001	75
				Intumescent	FIRETEX FX6002	As per MTO[2]
				Topcoat[5]	Acrolon 750 or Acrolon 775	75
C5	External	On-site / Off-site	Sa2½	Primer[1]	Zinc Clad 6001 or Zinc Clad 1001	75
				Intumescent	FIRETEX FX6002	As per MTO[2]
				Topcoat[5]	Acrolon 750 or Acrolon 775	150 (2 x 75)

Notes:
1. Primer mandatory.
2. MTO (Material Take Off) - which is provided on receipt of project material list, or BOQ (Bill of Quantities).
3. Primer optional, except where necessary for bolted connections. Ensure surface profile of 50-100µm is obtained when no using a primer.
4. Topcoat optional. Topcoat not required for non-visible areas.
5. For extended durability, two by 75µm of topcoat is required.

PRIMERS, INTUMESCENT AND TOPCOATS

Sherwin-Williams intumescent coatings systems have been designed for optimum use in conjunction with our specially formulated primers and topcoats.

PRIMERS

- The key purpose of a primer is to protect blast prepared steel substrates from decay. In the event of mechanical damage to the coating, a primer will stop the spread of corrosion.
- **Macropoxy™ 250** – Universal epoxy primer which provides excellent application properties by airless spray, and can cure at low temperatures, down to 5°C. Suitable for use with both shop and site applied intumescent.
- **Zinc Clad® 1001** – A two-component polyamide cured zinc rich epoxy primer. Containing 87% zinc dust (by weight) in the dry film, this primer offers durability as part of a paint system in harsh climates.
- **Zinc Clad® 6001** – A two-component inorganic ethyl silicate zinc rich primer. Containing 78% zinc dust (by weight) in the dry film, this primer offers durability in harsh climates, and is also approved for slip grip.

INTUMESCENT

- The key purpose of intumescent coatings is to protect the integrity of structural steel from increased temperatures, by forming a protective char around the steel member, allowing for crucial evacuation time.
- **FIRETEX® FX2005** – Highly versatile thin-film, solvent based, acrylic intumescent coating designed for internal and external use, suitable for application all year round.
- **FIRETEX® FX5090** – Water-based, thin-film, acrylic intumescent coating that meet requirements of international environmental standards.
- **FIRETEX® FX6002** – Ultra-fast dry patented technology that optimizes workshop throughput and enhances durability with a high level of finish.

TOPCOATS

- A topcoat keeps a coating looking at its best and ensures the full life of a coating is reached.
- All intumescent coatings contain certain key moisture-sensitive ingredients necessary for the intumescent reaction. Alongside careful formulation it is also essential to apply protective sealant coats to protect the properties of the fire protection from the weather. Sealer coats must be used for external environments to achieve durability. They also offer a decorative finish to intumescent coatings.
- **Acrolon™ 750** – High-performance, two-component, fast drying acrylic urethane gloss finish, for use where long-term exterior gloss and colour retention characteristics are required.
- **Acrolon™ 775** – High-performance, two-component, fast drying acrylic urethane semi-gloss finish, for use when a lower gloss finish is required.
- In C1 & C2 environments a single component topcoat may be used. For C3 & C5 environments a two-component topcoat will be specified.

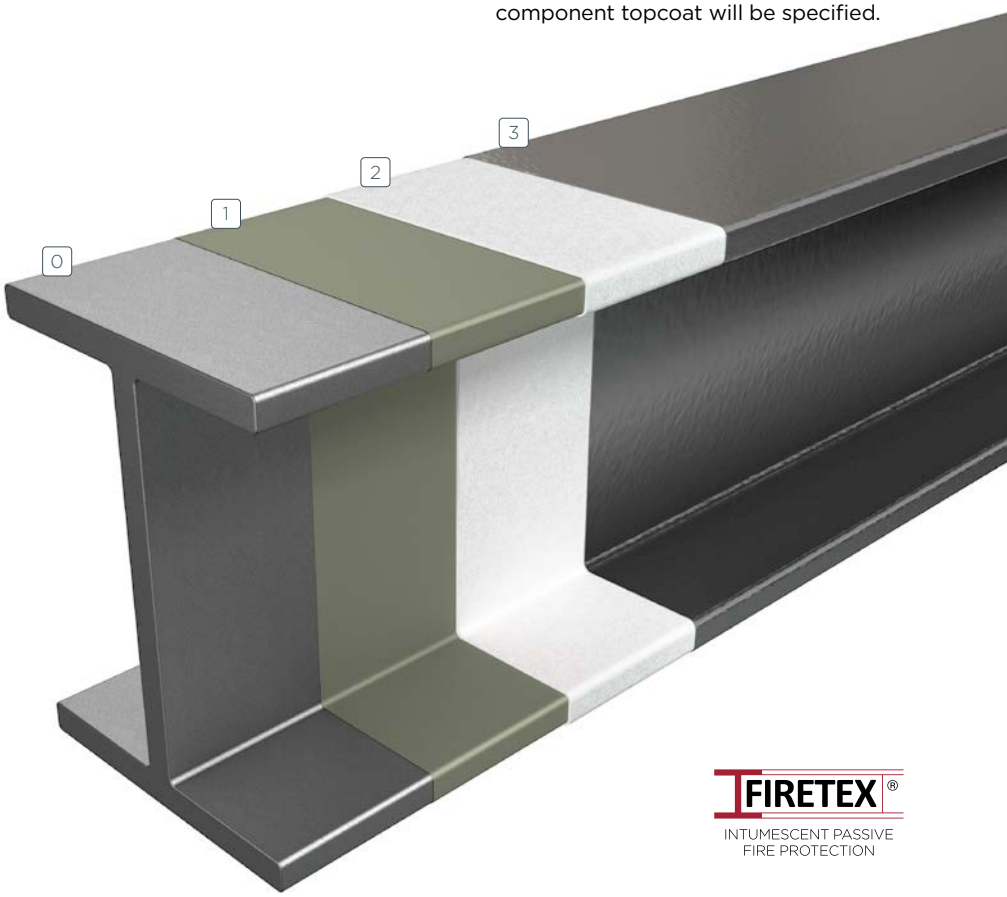
TYPICAL INTUMESCENT SYSTEM

0 **Substrate:**
Blast cleaned Sa2½ (ISO 8501-1:2007)

1 **Primer:**
Macropoxy 250

2 **Intumescent:**
FIRETEX FX6002

3 **Topcoat:**
Acrolon 750 or Acrolon 775



FIRETEX®
INTUMESCENT PASSIVE FIRE PROTECTION

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