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# Specification Sheet

## Intumescent Specification **FP4**

### Steelwork

New Construction (Site Applied)

**Environment ISO 12944:**

**C3** - Urban atmospheres with moderate sulphur dioxide pollution. Production rooms with high humidity and some air pollution / **C4** - Industrial Areas, Chemical Plants and Swimming Pools Etc.

**Durability (Life to First Major Maintenance): C3 / C4** - Up to 20 Years\*

**Surface Preparation:** Blast Clean to Sa2½ BS EN ISO 8501-1:2007 - Surface Profile between 50 - 75µm

Coat	Product	Product Type	Film Thickness µm		TSR (sqm/ltr)	Volume Solids %	Mixing Ratio	Pot Life 23°C
			Dry	Wet				
1st	Macropoxy® 400	Zinc Phosphate Epoxy	75	107	9.3	70	7 : 1	1½ hrs
2nd	FIRETEX® FX1003	Solvent Based Intumescent	At specified film thickness**			75	N/A	N/A
3rd	Acrolon® 7300 Gloss or Semi-Gloss	Acrylic Polyurethane	150***	221	4.5	68	10 : 1	2 hrs

TSR = Theoretical Spread Rate

Product Code	Colour Range	Touch Dry 15°C	Recoat 15°C	Touch Dry 23°C	Recoat 23°C	Thinners / Cleansers	Pack Size	Product Information
400	Limited Inc, MIO	1½ hrs	5 hrs	1 hr	3½ hrs	No.2 for Thinning - No.9/13 for Cleaning	20 & 5 ltr	<a href="#">400 Data Sheets and Information</a>
FX1003	White	1 hrs	4 hrs	30 mins	4 hrs	No.2 for Cleaning Only	20 ltr	<a href="#">FX1003 Data Sheets and Information</a>
7300	Wide Range	4 hrs	9 hrs	1 hr	7 hrs	No.15 for Thinning - No. 5 for Cleaning	20 & 5 ltr	<a href="#">7300 Data Sheets and Information</a>

D.F.T = Dry Film Thickness

For durability in Car Parks and Open Sided Buildings, Please consult Sherwin-Williams® Technical Customer Support.

\*Ease of Access is required to allow full inspections every year from the 3rd year after application. Where an inspection identifies breakdown or damage this should be addressed by application of an appropriate remedial specification immediately.

\*\*The dry film thickness of the FIRETEX® product is dependent on the size, shape and orientation of each section. Once structural drawings are obtained, Sherwin-Williams® Fire Engineering and Estimation Team can determine an accurate take-off.

\*\*\*Acrolon:® Multiple coats will be required to achieve this d.f.t., number of coats will be dependent on the method of application. It is strongly recommended that the applicator uses contrasting shades to aid visual inspection when applying multiple coats.

**Notes:**

- Alternative approved topcoats are available, please contact Sherwin-Williams® Technical Customer Support for further information.
- Durability should be considered as the fire protection design life, where regular minor maintenance should be scheduled to achieve the required life to first major maintenance
- The compatibility of alternative primers should be confirmed with Sherwin-Williams® Technical Customer Support.
- Coated steelwork should be protected to prevent prolonged contact with water, e.g. ponding.
- Subject to shade and method of application, multiple coats of the finish coat may be required to achieve the dft/ full colour obliteration.
- Small areas of damage may be repaired with FIRETEX® M72. Larger areas of damage should be repaired with FIRETEX® FX1003.
- All maintenance periods assume no abnormal service conditions and that areas of damage are repaired before the onset of localised breakdown.
- All materials should be obtained from Sherwin-Williams® and must be applied in accordance with our technical data sheets.
- For more detailed information on the application procedures for these products, and limits of use concerning film thickness control of intumescent and sealer coats; the user should consult the "FIRETEX® Solvent Based Intumescent Series Application Manual" (Available from Sherwin-Williams).
- This specification is offered as guidance only. To ensure that the most appropriate materials are used, please contact Sherwin-Williams® with the project details.