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Specification Sheet

Intumescent Specification **FP1**

Steelwork

New Construction (Site Applied)

Environment ISO 12944:

C1 - Heated buildings with clean atmospheres. / **C2** - Unheated buildings where condensation may occur

Durability (Life to First Major Maintenance): C1 - Life of Building / **C2** - 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® FX5 Series | Water Based Intumescent | At specified film thickness* | | | 69 | N/A | N/A |
| 3rd | FIRETEX® M71V2 | Intumescent Topcoat | 60 | 136 | 7.3 | 44 | N/A | N/A |

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 | 400 Data Sheets and Information |
| FX5 Series | White | 3 hrs | 6 hrs | 1½ hrs | 4 hrs | Water for Cleaning Only | 20 ltr | FX5062 Data Sheets/ FX5090 Information |
| M71V2 | Full Range | 1 hr | 4 hrs | 45 mins | 4 hrs | No.2 for Thinning and Cleaning | 20 & 5 ltr | M71V2 Data Sheets and Information |

D.F.T = Dry Film Thickness

FIRETEX® FX5 Series includes FX5062 and FX5090 which cover time periods up to 120 minutes, the appropriate product is selected by Sherwin-Williams® Fire Engineering and Estimation Team to provide the lowest loadings for the required time period.

If it can be guaranteed that application and subsequent in-service conditions are that of a C1 environment as defined in ISO 12944-2 then no topcoat is required.

FIRETEX® FX5 Water Based Series can be used in a C3 environment with different top sealer coats, see specification FP1c for details.

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

*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.

Notes:

- 1 Alternative approved topcoats are available, please contact Sherwin-Williams® Technical Customer Support for further information.
- 2 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
- 3 The compatibility of alternative primers should be confirmed with Sherwin-Williams® Technical Customer Support.
- 4 Coated steelwork should be protected to prevent prolonged contact with water, e.g. ponding.
- 5 Subject to shade and method of application, multiple coats of the finish coat may be required to achieve the dft/ full colour obliteration.
- 6 All maintenance periods assume no abnormal service conditions and that areas of damage are repaired before the onset of localised breakdown.
- 7 All materials should be obtained from Sherwin-Williams® and must be applied in accordance with our technical data sheets.
- 8 This specification is offered as guidance only. To ensure that the most appropriate materials are used, please contact Sherwin-Williams® with the project details.

This specification is subject to the disclaimer which can be found at <http://protectiveemea.sherwin-williams.com/Home/Disclaimer>