



FIRETEX M71V2

PRODUCT TECHNICAL DATA

PRODUCT INFORMATION

Revised 07/2015 Issue 2

| PRODUCT DESCRIPTION | | ENDORSEMENTS | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------------|---------------------------|---------------|---------------------------|----------------|---|------------|---|--------------------|---------|---------|-------------------|--|--|--|--|--|--|--|
| <p>FIRETEX M71V2 is a Sheen decorative topcoat for the FIRETEX range of single pack intumescent coatings and also provides protection when used in internal semi-controlled conditions where condensation may occur (Category C2 as defined in ISO 12944-2)</p> | | <p>Formulated to meet the requirements of EC directive 2004/42/CE</p> | | | | | | | | | | | | | | | | | | | |
| PRODUCT CHARACTERISTICS | | PRACTICAL APPLICATION RATES | | | | | | | | | | | | | | | | | | | |
| | | MICRONS PER COAT (MILS) | | | | | | | | | | | | | | | | | | | |
| | | Airless Spray | Conventional Spray | Brush | Roller | | | | | | | | | | | | | | | | |
| Colour: | Full Range | Dry 50 (2) | 50 (2) | 25-50 (1-2) | 25-50 (1-2) | | | | | | | | | | | | | | | | |
| Volume Solids: | 44 ± 2% (ASTM-D2697-91) | Wet 114 (5) | 114 (5) | 57-114 (2-5) | 57-114 (2-5) | | | | | | | | | | | | | | | | |
| | | <i>Drying time is temperature, humidity, and film thickness dependent.</i> | | | | | | | | | | | | | | | | | | | |
| | | APPLICATION EQUIPMENT | | | | | | | | | | | | | | | | | | | |
| <p>VOC: 472 gms/litre determined practically in accordance with UK Regulations PG6/23 499 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive 400 gms/kilo content by weight from formulation to satisfy EC Solvent Emissions Directive</p> <p>Mix Ratio: Single Component Material</p> <p>Recommended Application Methods: Airless Spray Brush Conventional Spray Roller</p> | | <p>The airless spray details given are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results.</p> <p>Airless Spray Nozzle Size:0.33mm (13 thou) Fan Angle:40° Operating Pressure:155kg/cm² (2200 psi)</p> <p>Conventional Spray Nozzle Size:1.27mm (50 thou) Atomising Pressure:3.5kg/cm² (50 psi) Fluid Pressure:1.0kg/cm² (14 psi)</p> <p>The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical.</p> <p>Brush/Roller The material is suitable for brush/Roller application and more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.</p> | | | | | | | | | | | | | | | | | | | |
| <p>Typical Thicknesses</p> <table border="1"> <thead> <tr> <th></th> <th>Minimum</th> </tr> </thead> <tbody> <tr> <td>Dry microns (mils)</td> <td>50 (2)</td> </tr> <tr> <td>Wet microns (mils)</td> <td>114 (5)</td> </tr> <tr> <td colspan="2"><i>Maximum sag tolerance typically 150µm dry by airless spray</i></td> </tr> <tr> <td>Theoretical Coverage m²/l (sq ft/gal)</td> <td>8.5 (346.5)</td> </tr> </tbody> </table> <p><i>* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.</i></p> | | | Minimum | Dry microns (mils) | 50 (2) | Wet microns (mils) | 114 (5) | <i>Maximum sag tolerance typically 150µm dry by airless spray</i> | | Theoretical Coverage m²/l (sq ft/gal) | 8.5 (346.5) | | | | | | | | | | |
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| Dry microns (mils) | 50 (2) | | | | | | | | | | | | | | | | | | | | |
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| Theoretical Coverage m²/l (sq ft/gal) | 8.5 (346.5) | | | | | | | | | | | | | | | | | | | | |
| <p>Average Drying Times:</p> <table border="1"> <thead> <tr> <th></th> <th>@ 15°C / 59°F</th> <th>@ 23°C / 73°F</th> <th>@ 35°C / 95°F</th> </tr> </thead> <tbody> <tr> <td>To Touch:</td> <td>1 Hour</td> <td>45 minutes</td> <td>30 minutes</td> </tr> <tr> <td>To Recoat:</td> <td>4 hours</td> <td>4 hours</td> <td>4 hours</td> </tr> <tr> <td>To Handle:</td> <td colspan="3">This will depend on total thickness of intumescent overcoated.</td> </tr> </tbody> </table> <p><i>These figures are given as a guideline only. Factors such as air movement and humidity must also be considered</i></p> | | | @ 15°C / 59°F | @ 23°C / 73°F | @ 35°C / 95°F | To Touch: | 1 Hour | 45 minutes | 30 minutes | To Recoat: | 4 hours | 4 hours | 4 hours | To Handle: | This will depend on total thickness of intumescent overcoated. | | | | | | |
| | @ 15°C / 59°F | @ 23°C / 73°F | @ 35°C / 95°F | | | | | | | | | | | | | | | | | | |
| To Touch: | 1 Hour | 45 minutes | 30 minutes | | | | | | | | | | | | | | | | | | |
| To Recoat: | 4 hours | 4 hours | 4 hours | | | | | | | | | | | | | | | | | | |
| To Handle: | This will depend on total thickness of intumescent overcoated. | | | | | | | | | | | | | | | | | | | | |
| <p>Shelf Life: 2 years from date of manufacture or 'Use By' date where specified.</p> <p>Flash Point: 25°C/77°F</p> <p>Thinner / Clean Up: Cleanser / Thinners No.2</p> | | | | | | | | | | | | | | | | | | | | | |



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RECOMMENDED USES

As a decorative topcoat for the FIRETEX range of single pack intumescent coatings but also to provide protection when used in an internal semi-controlled environment. (Category C2 as defined in ISO 12944-2).

After appropriate drying, can be exposed to weather provided that the specific use or storage does not lead to ponding water due to rainfall, condensation or other site / transportation / storage circumstances.

RECOMMENDED TOPCOATS

Not normally required, although indefinitely overcoatable with itself

ADDITIONAL NOTES

FIRETEX M71V2 must always be applied to a minimum dry film thickness of 50 microns to provide adequate protection to FIRETEX range of single pack intumescent coatings in an internally semi-controlled environment where condensation may occur (Category C2 as defined in ISO 12944-2).

FIRETEX M71V2 is recommended for future re-decoration and maintenance. The use of any other coatings may reduce the systems fire resistance.

Certain shades, eg yellows, oranges and reds, may require additional coats to achieve full opacity.

Numerical values quoted for physical data may vary slightly from batch to batch.

Application at ambient air temperatures below 5°C is not recommended.

For further technical enquiries please consult Sherwin-Williams

SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION CONDITIONS

In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

ORDERING INFORMATION

Pack Size: 20 litre (5.3 US Gallon) and 5 litre (1.3 US Gallon)

Weight: 1.25 kg/litre (10.4lb/US gallon).

Pack weight may vary with shade.

HEALTH AND SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.