Material Name | Specification Number

FIRE RETARDANT PAINT | M-5J100A

1. SCOPE: The materials desired under this standard are intumescent paints which are actively fire-retardant; will not support combustion, retard the spread of lames, and actively insulate the painted surfaces against the transmission of heat.

M-313F - Factory Dado Green	M-5J65F - Medium Green Office Trim
M-434F - White Fume Proof	M-5J66F - Light Beige Office
M-5J79F - Factory Medium Green	M-5J67F - Medium Beige OFfice Trim
M-454F - Office Green Flat	M-5J99AF - Light Gray Office
M-5J64F - Light Green Office	M-5J99BF - Medium Gray Employee Office

2. APPLICATION: These paints may be brushed, rolled, or sprayed and are generally used on all wood or other combustible material used in interior- construction where fire resistance is required. Paint must be applied NO THINNER THAN 150 SQUARE FEET PER GALLON.

3. REQUIREMENTS:

3.1 COLOR: (FLTM BI 109-01)

The colors shall have the following nominal tristimulus values +/-0.596:

	C.I.E. Tristimulus Values					
	X	Y	Z	X	Y	Z
M-313F	0.2473	0.2880	0.2279	M-5J65F 0.3296	0.2970	0.2744
M-434F	0.8149	0.8415	0.8498	M-5J66F 0.4724	0.6083	0.4582
M-5J79F	0.4586	0.4459	0.3286	M-5J67F 0.4357	0.4696	0.3484
M-454F	0.5846	0.5820	0.4696	M-5J99AF 0.5869	0.6130	0.5699
M-5J64F	0.4471	0.4037	0.3738	M-5J99BF 0.4682	0.4910	0.4732

3.2 COLOR TOLERANCE:
(ASTM D E97)

The color shall not differ from the master paint standard by more than 1.5 N.B.S. units (Federal Specification TT-P-141, Method 623.1). The luminous directional reflectance shall not differ from the master paint standard by more than +/- 3% (ASTM D 771).

Date	Action	Revisions
1991 09		

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3.3 NONVOLATILE: 60.6% min
(FLTM BI 21)

3.4 VEHICLE: The vehicle shall exhibit intumescence properties when heated to 300 F (150 C).

3.5 VISCOSITY: 80 F (27 C) 7885 KU
(ASTM D 562)

3.6 HIDING POWER:

3.6.1 WET HIDING: 16 max with 0.0007 wedge
(FLTM BI 11)

3.6.2 DRY HIDING: The dry hiding power calculated as a contrast ratio shall not be less than 0.950 at a film thickness of 1.5 - 2.0 mils.

3.7 SHELF STABILITY: There shall be no hard settling, skinning, or jellying after aging a one-half full pint can for ten days at room temperature.

3.8 DRYING: The material shall dry tack free within one hour. It shall have complete drying in 12 hours, at a film thickness of 1.5 - 2.0 mils, and shall show satisfactory adhesion and film hardness after 48 hours, as determined by shop trial.

3.9 APPLICATION: The material shall show easy brushing, good flowing, spreading, and leveling properties. A paint that has any noticeable pull under a large wall brush and that shows only fair spreading and flowing properties shall not be acceptable. In addition, this material must be suitable for spraying applications when reduced with M14J242, Toluol, or M14J245, Xylol; these materials must be suitable for use with M6J139A/B, when applied to steel surfaces and M5J35, White Undercoater, when applied to wood surfaces. The foregoing to be determined by shop trial.

3.10 DURABILITY: This material shall withstand washings and resistance to leaching, as covered in D.O.D. Specification TT-P-0026B, latest edition.

3.11 CLEANING PROPERTIES: The material shall wash clean from brushes and equipment when M14J242, Toluol, or M14J245, Xylol, is used.

There shall be no precipitation or gummy residue left on the brushes or in the equipment after proper cleaning.

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