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FROM SAN FRANCISCO-415/928-6866

REPORT OF TEST

The Flamemaster Corporation  
11120 Sherman Way  
Sun Valley, California 91352

FLAME SPREAD CLASSIFICATION  
SMOKE AND FUEL CONTRIBUTION

Flamemastic 77 Coating

November 16, 1981

TEST REPORT NO. LA 12396

SIGNED FOR THE COMPANY

BY

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ED A MAXIMUM OF THIRTY DAYS



REFERENCE

Client's Purchase Order No. 7948 per Mr. Samuel L. Engel, Sr.

REQUIREMENT

Perform standard flame spread, smoke density and fuel contributed classification tests on the panel supplied by the Client in accordance with ASTM Designation E-84, "Standard Method of Test for Surface Burning Characteristics of Building Materials".

SAMPLE IDENTIFICATION

The sample tested was submitted and identified by the Client as: Flamemastic 77, a water based, fire barrier coating applied to 1/4" Johns Manville Flex-board at a rate of 1/8" wet film thickness. ( $\frac{1}{16}$ " DRY)

PREPARATION AND CONDITIONING

The panels provided were self supporting and pre-cut to meet the tunnel dimensions. The sample panels were placed in the conditioning room (maintained at a dry-bulb temperature of  $73.4 \pm 5^{\circ}\text{F}$ . and a relative humidity of  $50 \pm 5\%$ ) and allowed to come to equilibrium.

TEST PROCEDURE

The sample was tested following calibration and pre-heating. The evaluation was performed in conformance with the specifications set forth in ASTM Designation E-84, "Standard Method of Test for Surface Burning Characteristics of Building Materials", both as to equipment and test procedure. The foregoing test procedure is comparable to UL 723, NFPA No. 255, and UBS No. 42-1.

SUMMARY OF TEST RESULTS

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

| <u>Sample Identification</u> | <u>Flame Spread</u> | <u>Fuel Contribution</u> | <u>Smoke Density</u> |
|------------------------------|---------------------|--------------------------|----------------------|
| Flamemastic 77               | 10                  | 0                        | 30                   |

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

| <u>NFPA CLASS</u> | <u>UBC CLASS</u> | <u>FLAME SPREAD</u> |
|-------------------|------------------|---------------------|
| A                 | I                | 0 through 25        |
| B                 | II               | 26 through 75       |
| C                 | III              | 76 through 200      |
| D                 | ---              | 201 through 500     |
| E                 | ---              | Over 500            |

BUILDING CODES CITED

1. National Fire Protection Association, NFPA No. 101, "Life Safety Code".
2. Uniform Building Code, 1979 edition, Part VIII, "Fire Resistive Standard for Fire Protection", Chapter 42-Interior Wall and Ceiling Finish, Sections 4201-4203.

ASTM E-84 TEST DATA SHEETCLIENT: The Flamemaster Corp. DATE: November 16, 1981SAMPLE: Flamemastic 77 CoatingTHICKNESS: 1/8" Wet filmFLAME SPREAD:Ignition 58 SecondsFlame Front 2 1/2 ft. max. Time to Max. Spread 57 Seconds 1 MinuteCalculation 21.67 X .515 = 11.16 Test Duration 10 MinutesSUMMARY

|                               |    |
|-------------------------------|----|
| FLAME SPREAD BY: ASTM E-84-80 | 10 |
| FUEL CONTRIBUTION:            | 0  |
| SMOKE DENSITY                 | 30 |

OBSERVATIONS

Considerable bubbling of the coating surface preceded a sample ignition time of 58 seconds. A maximum flame front advance of 2½' was observed about 1 minute after ignition. Total delamination of the coating in the flame impingement area occurred shortly after 2 minutes, but did not enhance the flame front. No afterburning noted at test conclusion.