

CLIENT: SOUTH COAST AQMD
21865 Copley Drive
Diamond Bar, CA 91765
Dan Russell

Test Report No: 573449-4

Date: April 10, 2006

SAMPLE ID: The Client submitted and identified the following test material as TPR² Heatshedder Insulative/Non-Flammable Coating HS Series coating, coverage rate of 125 sq.ft./gal. and TPR² Non-Flammable Paint IP Series Paint, coverage rate of 200 sq.ft./gal applied to 5/8" Fire Rated Gypsum Board. See Preparation Details on page 2.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on March 10, 2006.

TESTING PERIOD: March 29, 2006.

AUTHORIZATION: Testing authorized by Dan Russell.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-05, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

TEST RESULTS:	<u>Flame Spread</u>	<u>Smoke Density</u>
	5	5

For detailed results see page 3.

Tested by

**Signed for and on behalf of
SGS U.S. Testing Company Inc.**

Brian Ortega
Test Technician

Greg Banasky
Supervisor Fire Technology

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PREPARATION AND CONDITIONING: The TPR² Heatshedder Insulative/Non-Flammable Coating HS Series coating was roller applied to three, 22" wide by 96" long, pieces of 5/8" Fire Rated Gypsum Board at a coverage rate of 125 sq.ft./ gallon in one application. The TPR² Heatshedder Insulative/Non-Flammable Coating HS Series coating was allowed to cure 48 hours prior to the application of the TPR² Non-Flammable Paint IP Series Paint at a coverage rate of 200 sq.ft./gal. The boards were allowed to cure for a minimum of 48 hours prior to testing.

Prior to testing, the specimen was placed in the conditioning room (maintained at 73.4 ± 5° F and a relative humidity of 50 ± 5%) and allowed to reach moisture equilibrium.

SUMMARY OF ASTM E84 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>SMOKE DENSITY</u>
TPR ²	5	5

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

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.

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E 84 TEST DATA SHEET:

CLIENT: SOUTH COAST AQMD **DATE:** 03/29/06

SAMPLE: TPR²

FLAME SPREAD:

IGNITION: 1 minute, 20 seconds

FLAME FRONT: 1 foot maximum

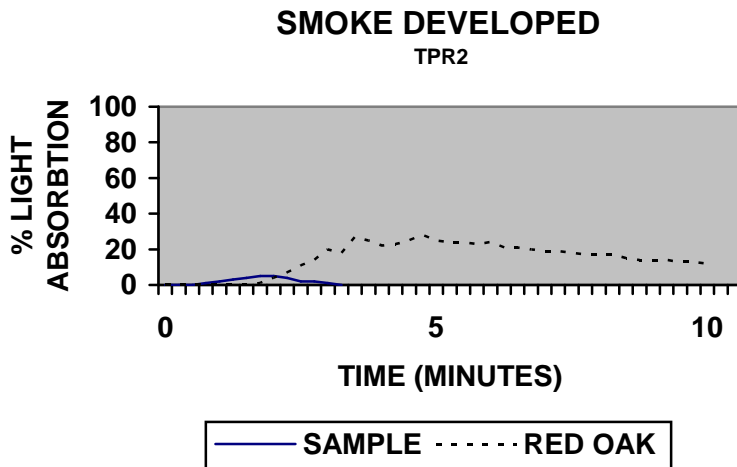
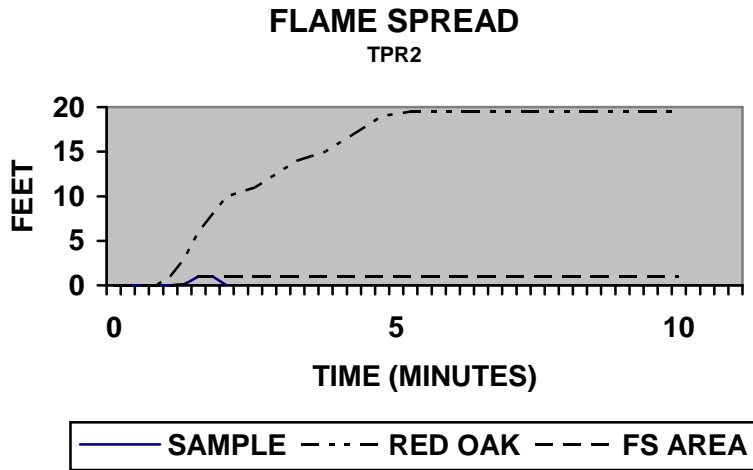
TIME TO MAXIMUM SPREAD: 1 minute, 35 seconds

TEST DURATION: 10 minutes

CALCULATION: $8.51 \times 0.515 = 4.38$

SUMMARY: **FLAME SPREAD:** 5 **SMOKE DENSITY:** 5

OBSERVATIONS: Sample surface ignition was observed at 1 minute, 20 seconds. A flame front advance of 1 foot was observed at 1 minute, 35 seconds. Blistering and peeling were noted commencing at 1 minute, 25 seconds.



End of Report