

File R21919
Project 04CA37330

2004.10.29

REPORT

on

ROOFING SYSTEMS

Under The

CLASSIFICATION PROGRAM

FOR

LAFARGE ASPHALT ENGINEERING
MISSISSAUGA, ONTARIO CANADA L5N 5Z2

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GENERAL

The purpose of this investigation was to establish a program of Follow-Up Service and subsequent Classification and for a spray-applied emulsion identified by the Project sponsor as "Liquid Rubber Spray Grade" product as produced at Lafarge Asphalt Engineering's Mississauga, Ontario Canada manufacturing facility.

INVESTIGATION:

A representative of Underwriters Laboratories Inc. visited Lafarge Asphalt Engineering's Mississauga manufacturing facility to identify the ingredients, witness blending of the formula and manufacture of a representative batch of "Liquid Rubber Spray Grade" finished product. The information obtained during the visit of UL's representative will be used in establishing specifications for use in the Follow-Up Service Program at Lafarge Asphalt Engineering's Mississauga, Ontario Canada manufacturing facility.

DESCRIPTION

PRODUCT COVERED:

The product covered by this Report is an asphaltic-based spray applied emulsion identified by the Project sponsor as "Liquid Rubber Spray Grade."

The product in this Report is Classified as to external fire exposure only.

USE:

The product is intended for use as building materials as permitted by authorities having jurisdiction.

TEST RECORD NO. 1

EXAMINATION OF MATERIALS:

Based upon our fire test experience with ballasted Inverted Roofing Emulsion Assembly (IRMA) systems and since stone ballast applied at 1000 lb/sq has shown to be an adequate barrier relative to fire resistance when exposed to the Class A Spread-of-Flame fire test, Class A Spread-of-Flame Fire tests were not required. Therefore, Roofing System Classification incorporating "Liquid Rubber Spray Grade" will be promulgated as Class A noncombustible deck roofing covering systems.

CONCLUSION

Based upon the results of the examination and data analysis presented in this Report, as they relate to established principles and previously recorded data, "Liquid Rubber Spray Grade" emulsion as described herein is judged to be eligible for Classification and Follow-Up Service of Underwriters Laboratories Inc.

Under the Service, the manufacturer is authorized to use the Laboratories' Classification Marking on such products, which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products, which properly bear the Laboratories' Classification Marking, are considered as Classified by Underwriters Laboratories Inc.

CLASSIFICATION MARKING

The Classification Marking to be used with the "Liquid Rubber Spray Grade" finished product is illustrated below:



**CEMENTS AND COATINGS FOR
ROOFING SYSTEMS
AS TO AN EXTERNAL FIRE EXOSURE**
(Control No.)

CLASSIFICATION

Lafarge Asphalt Engineering's Roofing Covering System Classification card will be promulgated as follows:

LAFARGE ASPHALT ENGINEERING

2283 Argentina Road, Unit 16
Mississauga
Ontario CANADA L5N 5Z2

R21919**COLD APPLICATION SYSTEMS****Class A - Ballasted**

Unless otherwise indicated, the insulation and emulsion are laid loosely.
As an alternate, the insulation may be mechanically fastened to the deck with screws and metal or plastic discs, hot roofing asphalt or a combination of screws/discs and hot roofing asphalt.

An optional layer of gypsum board may be placed between the insulation and the roof deck on all systems.

As an alternate, crushed stone conforming to ASTM D-448 No. 4 may be used in lieu of river bottom stone at the same coverage rate.

As an alternate, river bottom or crushed stone conforming to ASTM D-448 No. 3 or 24 may be used in lieu of the No. 4 stone applied at 1000 lbs/sq (min).

As an alternate, river bottom or crushed stone conforming to ASTM D-448 No. 1 or 2 may be used in lieu of the No. 4 stone applied at 1300 lbs/sq (min).

As an alternate, concrete pavers weighing 15 lb/sq (min) and spaced ¼-in. (max) apart may be used in lieu of (or in combination with) the river bottom or crushed stone.

As an alternate in either river bottom stone or paver systems, a protective mat may be placed between the emulsion and surfacing.

1. Deck: NC**Incline: 2**

Insulation (Optional): Perlite, wood fiber, glass fiber, polyurethane, polyisocyanurate, polystyrene (expanded or extruded), phenolic, perlite/urethane composite, perlite/polyisocyanurate or polystyrene/perlite composite, any combination, any thickness. NOTE: When Polystyrene is used on combustible decks, a layer of ½-in. min Johns Manville "Retrofit Board", ½-in. min Gypsum Board (not UL Classified) or ¾-in. perlite must be placed either above or below the polystyrene.

Protective Mat (Optional): Exception: Noninsulated systems, polyester or polypropylene protective mat).

Emulsion: " Liquid Rubber Spray Grade" applied at x gal/sq.

Surfacing: River bottom stone (¾ to 1-½-in. diam) at 1000 lb/sq.

Reported by:

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