

**Intertek** ETL SEMKO

REPORT OF  
CRACK BRIDGE TESTING

CONDUCTED ON  
LIQUID RUBBER FOUNDATION GRADE

FOR  
LAFARGE ASPHALT ENGINEERING  
A DIVISION OF LAFARGE MATERIALS AND CONSTRUCTION INC.  
2283 ARGENTIA ROAD, UNIT 16  
MISSISSAUGA, ON L5N 5Z2

REPORT PREPARED BY  
INTERTEK TESTING SERVICES NA LTD.  
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REPORT NUMBER: 3059675

DATE: JULY 21, 2004



## INTRODUCTION

At the request of Lafarge Asphalt Engineering, the Coquitlam, British Columbia branch of Intertek Testing has conducted crack bridge testing on a waterproofing membrane. The test blocks were prepared and material applied at Lafarge's Mississauga, Ont. location and shipped to Intertek's Coquitlam facility for testing.

## PRODUCT TESTED

Product name: Liquid Rubber Foundation Grade  
Manufacturer: Lafarge Asphalt Engineering-A Division of LAFARGE Materials and Construction Inc.  
Model or type: Batch #0565  
General desc: Rubberized asphalt membrane  
Product use: Water-proofing and Concrete Protection (between slabs, basement walls, foundation etc.)  
Application: Spray applied

## TESTING PROGRAM

Test blocks were prepared in accordance with ASTM C 1305-option B.  
The crack bridger parameters were set to conduct the following cycle conditions:

Method: ASTM C 836-03 and ASTM C 1305-00 (modified)

### Un-aged Samples ( 2 tested)

Test temperature: -20°C  
# of cycles: 70  
Initial opening: 1 mm  
Rate of extension: 16 mm/hr  
Extension: 2 mm

### Samples After 14 days heat aging @ 70°C (2 tested)

Test temperature: -20°C  
# of cycles: 10  
Initial opening: 1 mm  
Rate of extension: 16 mm/hr  
Extension: 2 mm

## TESTS AND TEST RESULTS

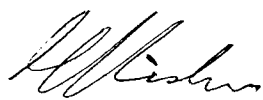
Sample Tested	# of cycles	Observations
Unaged	70	No cracking, splitting, pinholes or other deleterious condition in joint area
After 14 days @ 7°C	10	No cracking, splitting, pinholes or other deleterious condition in joint area

## CONCLUSION


The product as described and reported herein, did not sustain any visible damage or effect after Crack Bridge testing. The samples were inspected under 10X magnification for any pinholes, cracking, splitting., while in the expanded position. None were found.

## INTERTEK TESTING SERVICES NA LTD.

Reported by:

  
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Geri Nishio  
Technologist, Construction Products

Reviewed by:

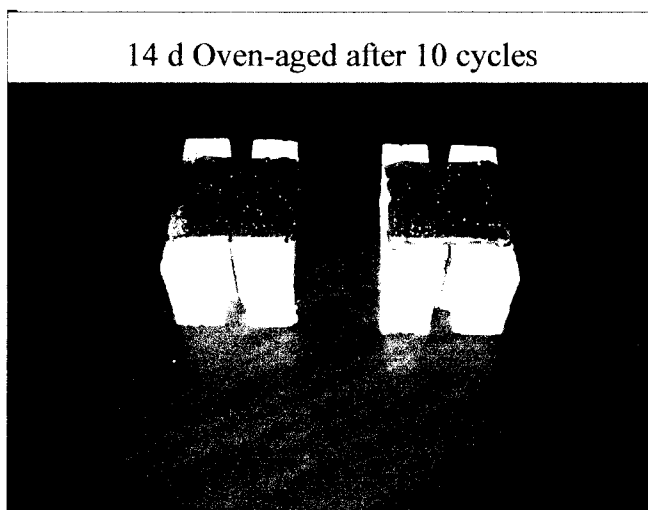
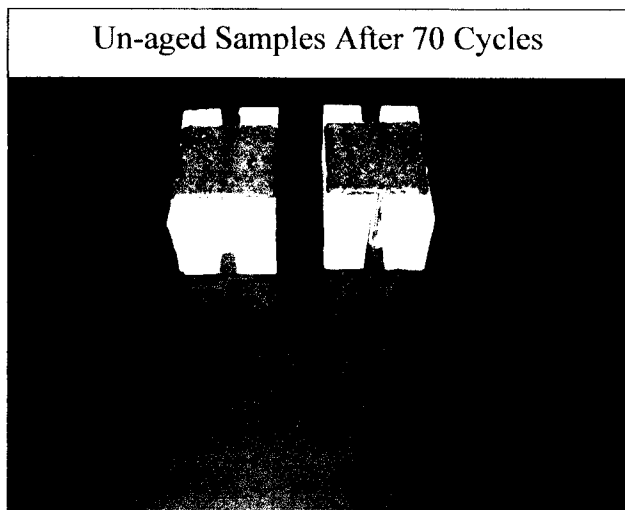
  
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Cameron Robinson, P.Eng.  
Manager, Construction Products

## Crack Bridge Test

**Proj. #:** 3059675  
**Date:** June 14/04  
**Client:** Lafarge North America  
**Product:** Liquid Rubber Foundation Grade  
**Test Method:** ASTM C 836-2000 (Modified)  
**Test temperature:** -20°C Monitored with Fluke 52II Digital Thermometer (ITS ID # 2679)  
**Extention rate:** 16 mm/hr  
**Extension:** 2 mm

**Notes:** Start at 1 mm opening. Extend to 3 mm opening  
Test Blocks as per ASTM D 1305-00 fig 1, option B

Sample tested	# of Cycles	Observations/Comments
Unaged sample	70	No cracking, delamination pinholes, or adhesion failure of membrane visible under 10 x magnification
After 14 d oven aging	10	No cracking, delamination pinholes, or adhesion failure of membrane visible under 10 x magnification



Tested by:

*G. Nishio*  
G. Nishio