#### THE ISRAEL INSTITUTE OF STANDARDS

The Construction Materials Laboratory

## TEST REPORT No. 8011209051/1

Particulars of order:

Name of orderer : BITUM

His address:

4, Hayetsira Street, P. O. Box 10175, 26111 Haifa Bay

Date of order: 19/06/2000

#### Report on the Product:

Samples of sealing material called "Mastigum Spray" manufactured by the BITUM Company, which had been applied by a representative of the orderer unto various structures.

#### Particulars of sampling:

The sample was taken on date: July 2000.

The sampling was chosen by the orderer's representative.

Sample size: 1

## Type of analysis:

Establish the characteristics in conformance with the BITUM Company testing programs.

This report includes 3 pages, and should be used in its entirety only.

This document relates to the samples tested only, and should not be related to other samples of the same product.

General: Testing program and test results - see pages 2 and 3.

Signatory's name: Peysik Zohar His position: Head of Sealing

and Coating Materials

Signatory's name: Engineer Laser Tsfira

Her position: Head of the Division of

Finishing Materials

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#### **TESTING PROGRAM**

- Thickness measurements (dry material) in accordance with the method indicated in Israeli Standard No. 1430/3.
- 2. Stretch strength (in accordance with the method indicated in ASTM D412).
- 3. Elongation (in accordance with the method indicated in clause 2 above).
- 4. Stretch strength following water immersion at 50°C for 168 hours (in accordance with the method indicated in clause 2 above).
- 5. Elongation following water immersion at 50°C for 168 hours (in accordance with the method indicated in clause 2 above).
- 6. Bridging over cracks (in accordance with the method indicated in Israeli Standard No. 1731), maximum decreased strength: -25 %.
- 7. Bridging over cracks (in accordance with the method indicated in Israeli Standard No. 1731), maximum decreased strength: -35 %.
- Recovery following 800 % elongation (800 % elongation of sample sized 50 mm length, 10 mm width, whereas the distance between the testing point is 25 mm). Measurement was performed after 60 minutes following sample release.
- Resistance at high temperature of 90°C in accordance with the method indicated in Israeli Standard No. 1430/3.
- 10. Resistance at low temperature of -15°C in accordance with the method indicated in Israeli Standard No. 1430/3.
- 11. Permeability to water vapor passage (in accordance with the method indicated in ASTM-4-96).
- 12. Water penetration under pressure (in accordance with the method indicated in DIN 52123).
- (Testing was performed using a fiberglass net with a rib length of 1.0 mm).

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# TEST RESULTS

#	Feature tested	Test Method	Unit	Test Results	Remarks
1	Measurements of dry thickness (mm)	In accordance with method indicated in Israeli Standard 1430/3	mm	3.8 + 6.0	-
2	Stretch strength (maximum)	In accordance with method indicated in ASTM- D- 412	mps	Units : 0.12 ÷ 0.16 Average : 0.14	Thickness of
3	Elongation (maximum)	In accordance with method indicated in ASTM- D- 412	%	Units : 1191 ÷ 1738 Average : 1484	sample ; 4.4 ÷ 6.0
4	Stretch strength (maximum) after water immersion	In accordance with method indicated in ASTM- D- 412	mps	Units: 0.07 ÷ 0.18 Average: 0.12	Change : -14.3
5	Elongation (maximum) after water immersion	In accordance with method indicated in ASTM- D- 412	%	Units: 973 ÷ 1608 Average: 1295	Change : -12.7
6	Bridging over cracks, elongation (max. strength decrease of -25 %)	In accordance with method indicated in Israeli Standard 1731	mm	Units: 12.2 ÷ 23.6 Average: 16.1	Thickness of
7	Bridging over cracks, elongation (max. strength decrease of -35 %)	In accordance with method indicated in Israeli Standard 1731	mm	Units : 51.4 ÷ 62.4 Average : 58	sample : 3.9 ÷ 5.4
8	Recovery after 800 % elongation	<ul> <li>initial distance :</li> <li>25 mm</li> <li>measurement :</li> <li>60 min. after sample release</li> </ul>	%	92	-
9	Resistance at high temperature of 90°C	In accordance with method indicated in Israeli Standard 1430/3	°C	* The material remains stable * No visible slippery signs	-
10	Resistance at low temperature of -15°C	In accordance with method indicated in Israeli Standard 1430/3	°C	The samples did not crack	-
11	Permeability to water vapor (µ)	ASTM- E- 96	M/M	265	Thickness of sample: about 4 mm.
12	Water penetration under pressure	DIN- 52123	Atm.	1 Atm. 2 Atm. after 24 after 24 hrs. hrs. No No water water passage passage	Thickness of sample: about 4 mm.