

Test Report No. 8411208172

## Details of order

The test was ordered by	: Bitum Petrochemical Industries Ltd.
Address	: 4 HaYetzira, Kiryat Haim, Haifa 26290, ISRAEL
Date of order	: 12/05/04

## Description of sample

White polymer sealant material, designated "Multigum".

## Sampling details

The sample was taken on 12/05/04 by a representative of SII.  
Sample size: one bucket.

## Nature of test

Testing in accordance with the methods described in SI 4518 (November 2001) "Liquid applied, acrylic based flexible coating used in roof waterproofing" for a coating system, designated M.

This report contains 4 pages and may be used only in full.

The test results in this document refer only to the item tested.

## Test conclusions

The test results are given on page 2.

**This document is not approval for marking the product with the Standards Mark**

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Position : Head, Sealing and Coating Materials section

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Position : Head, Structures and Sealing Materials section

17/08/04

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## Test results

Clause no.	Property tested	Units	Test results	Requirements of SI 4518
3.2.1	Density	kg/liter	1.28	Shall not deviate by more than +3% from the manufacturer's declaration.
3.2.2	Viscosity	–	–	Shall not deviate from the range in the manufacturer's declaration for the intended application method.
3.2.3	Content of nonvolatile material by weight	%	74	Shall not deviate by more than +3% from the manufacturer's declaration.
3.3.1	Elongation at maximum tensile force	%	Minimum: 209 Average: 231	According to manufacturer's declaration.
3.3.2	Tensile strength at fracture	MPa	Minimum: 2.0 Average: 2.2	
	Elongation at fracture	%	Minimum: 234 Average: 259	
3.3.3	Water absorption	%	Average: 12.7	Less than 20.
3.3.4	Resistance to water immersion	Visual	There were no signs of elongation.	There shall be no signs of elongation.
3.3.5	Watertightness after water immersion	0.5 atm. for 24 hours	Water did not pass through the specimens.	Water shall not pass through.
3.3.6	Axial bonding strength	MPa	Minimum: 0.75 Average: 0.90	Minimum: 0.4 Average: 0.5
3.3.7	Low temperature flexibility	-10 °C	No cracks appeared.	No cracks shall appear.

### Test results (continued)

Clause no.	Property tested	Units	Test results		Requirements of SI 4518
3.3.8 3.3.8.1	Dynamic bridging over a crack - <b>before weathering</b> after conditioning in air <u>Designation of coating system: M</u>	1000 cycles of 1.0 mm	1	No cracks appeared	No cracks shall appear during or after the test.
			2	No cracks appeared	
			3	No cracks appeared	
		1000 cycles of 3.0 mm	1	No cracks appeared	No cracks shall appear during or after the test.
			2	No cracks appeared	
			3	No cracks appeared	
3.3.8 3.3.8.2	Dynamic bridging over a crack - <b>after heat weathering</b> at 80±2 °C for 28 days <u>Designation of coating system: M</u>	1000 cycles of 1.0 mm	1	No cracks appeared	No cracks shall appear during or after the test
			2	No cracks appeared	
			3	No cracks appeared	
		1000 cycles of 2.0 mm	1	No cracks appeared	No cracks shall appear during or after the test
			2	No cracks appeared	
			3	No cracks appeared	
3.3.8 3.3.8.3	Dynamic bridging over a crack - <b>after water immersion</b> at 23±2°C for 168 hours <u>Designation of coating system: M</u>	1000 cycles of 1.0 mm	1	No cracks appeared	No cracks shall appear during or after the test
			2	No cracks appeared	
			3	No cracks appeared	
		1000 cycles of 2.0 mm	1	No cracks appeared	No cracks shall appear during or after the test
			2	No cracks appeared	
			3	No cracks appeared	
3.3.9 3.3.9.1	Resistance to accelerated UV weathering – Elongation in tension at fracture	%	230		> 200
3.3.9.2	Resistance to water immersion	–	The sheet did not crumble on contact.		The sheet shall not crumble on contact.
3.3.9.3	Low temperature flexibility	-5 °C	No cracks appeared		No cracks shall appear during or after the test

**Test results** (continued)

Clause no.	Property tested	Units	Test results	Requirements of SI 4518
3.3.10	Resistance to heat weathering –	%	292	> 200
3.3.10.1	Elongation in tension at fracture			
3.3.10.2	Resistance to water immersion	Temperature: 3±2 °C	The sheet did not crumble on contact.	The sheet shall not crumble on contact.
3.3.10.3	Low temperature flexibility	-5 °C	No cracks appeared	No cracks shall appear during or after the test
3.3.11	Adhesion to bitumen: - Bonding strength in axial tension - Formation of staining bubbles and change of appearance	MPa	*	Test results shall be reported

\* **Note:** The test results shall be reported at the end of the tests.

Invoice: no.: 2120315

Tel-Aviv: 17/08/04