

## ORANGE HIGH IMPACT (IR3) CONCRETE UNDERLAY

Our Orange High Impact Concrete Underlay is fully tested and certified by NATA approved laboratories. Tests were carried out on compliance with AS2870 in respect to film thickness (AS/NZS 4347.9), impact resistance (AS/NZS 4347.6) and resistance to puncture and moisture penetration (CSIRO 'Method for determination of the penetration resistance of water vapour barriers to falling aggregate').



### POLYMER TESTING LABORATORY

Eugen Singer Plastics Resource Centre

#### TECHNICAL REPORT

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<b>CUSTOMER:</b>	SUNRISE MARKETING PTY. LTD.
<b>ESPRC No.:</b>	016a/20
<b>TEST:</b>	Impact Resistance (Falling Dart Impact Test) Damp – proof courses and flashings
<b>COMPLIANCE STANDARD:</b>	AS 2870 Section 5.3.3.3 b
<b>TEST METHOD:</b>	AS/NZS 4347.6
<b>PROCEDURE:</b>	Method 6
<b>DATE OF TEST:</b>	20 February 2020
<b>SAMPLE SOURCE:</b>	Sunrise Marketing
<b>SAMPLE IDENTIFICATION:</b>	MEM-CON Concrete Underlay 0.2 mm (Orange)
<b>MATERIAL BATCH NUMBER:</b>	-
<b>CLASS OF FILM:</b>	High Impact Film
<b>PREVIOUS HISTORY:</b>	Unknown
<b>SAMPLE PREPARATION:</b>	Specimens cut with scissors across the width of the roll & one on the fold (2 specimens per metre of width)
<b>WIDTH OF ROLL:</b>	4 m
<b>IMPACT LOAD USED (INCLUDING DART HEAD):</b>	340 gram
<b>DART FREE FALL HEIGHT:</b>	660 mm
<b>AVERAGE FILM THICKNESS:</b>	0.239 mm
<b>NUMBER OF TESTS:</b>	Eight (8)
<b>NUMBER OF RECORDED PASSES:</b>	Eight (8)
<b>OVERALL TEST RESULT:</b>	Pass
<b>IMPACT TEST ON FOLD SPECIMEN:</b>	
<b>IMPACT LOAD USED (INCLUDING DART HEAD):</b>	310 gram
<b>DART FREE FALL HEIGHT:</b>	660 mm
<b>OVERALL TEST RESULTS ON THE FOLD:</b>	Pass

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<b>CUSTOMER:</b>	SUNRISE MARKETING PTY. LTD.
<b>ESPRC No.:</b>	016b/20
<b>TEST:</b>	Thickness
<b>COMPLIANCE STANDARD:</b>	AS 2870 Section 5.3.3.3 a
<b>METHOD:</b>	AS/NZS 4347.9 Damp-proof courses and flashings – methods of test.
<b>PROCEDURE:</b>	Method 9 Determining Thickness
<b>DATE OF TEST:</b>	20 February 2020
<b>SAMPLE SOURCE:</b>	Sunrise Marketing
<b>SAMPLE IDENTIFICATION:</b>	MEM-CON Concrete Underlay 0.2 mm High Impact sheet (Orange)
<b>MATERIAL BATCH NUMBER:</b>	-
<b>PREVIOUS HISTORY:</b>	Unknown
<b>SPECIMEN PREPARATION:</b>	Two strips taken across width of film Measurements taken across the width of film
<b>SAMPLE CONDITIONING:</b>	> 48 Hours @ 23°C, 50 % Relative Humidity
<b>TESTING CONDITIONS:</b>	23°C, 50 % Relative Humidity
<b>NUMBER OF MEASUREMENTS:</b>	Thirteen per strip (~3 measurements per metre)

Sample	Average Thickness (mm)	Number of measurements	Number of measurements below 170 µm
High Impact	0.239	26	0
Orange Concrete Underlay			

#### 6.1 CSIRO Falling Aggregate Test.

The results of the ink were:

Specimen 1. No ink penetration observed

Specimen 2. No ink penetration observed

Specimen 3. No ink penetration observed

#### 6.2 Water Vapour Permeance

Client:	Sunrise Hardware and Garden Products
ExcelPias Job Number:	# 11868
Sample Identification	Orange builders' film
Sample Roll/Batch/Lot Number	Not given
Sample Thickness	0.219 mm
Test Method	Water method
Test Temperature	23 °C
Relative Humidity in the Test Chamber	50 % R.H.
Mean Water Vapour Transmission Rate	0.01259 g/h.m <sup>2</sup>
Water Vapour Transmission Rate Standard Deviation	0.00107 g/h.m <sup>2</sup>
Mean Vapour Permeance	0.00000249 mg/N.s
Vapour Permeance Standard Deviation	0.00000 mg/N.s

## ORANGE HIGH IMPACT (IR3) CONCRETE UNDERLAY

We understand the importance of quality, especially for building products, and ensure our products meet the relevant standards. As an ongoing quality assurance, our factory maintains tests on production by sampling every 10 rolls for impact resistance and thickness. Furthermore, supplement to factory and external testing, we maintain in-house testing equipment to do our own sample testing on shipments.



Recent happenings in the building and construction industry, such as fire hazards in building claddings and mass evacuations of tenants from high-rise buildings, all point towards the necessity of maintaining good quality control and adherence to standards.

We have noticed that some building films are supplied without a brand name on the body of the film. This is clearly not meeting the required standard and if any problems occur it is not easy to pin responsibility, especially on the supplier of the product.

The AS 2870 clause 5.3.3.2 (b) clearly stipulates - *Film branded continuously 'AS 2870 Concrete underlay, 0.2 mm high impact resistance', together with manufacturer or distributors name, trademark or code. As a first step, please make sure your orange builders film carries this information on the body of the film.*

✓ Correctly Branded



✓ Correctly Branded



✗ No Branding

