





## **TEST SUMMARY**

#### Objective

Assessment of Supplied Sample to AS4654.1-2012

#### Project

Evaluation of ACTFLEX 101 UV to AS4654.1-2012

#### **Report Number**

254-1 AS4654.1-2012

#### Customer

NAME	Actech Protective Coatings
ADDRESS	22/872 Canterbury Road,
	Roselands 2196 NSW Sydney
CONTACT PERSON	James Gilto
EMAIL	admin@actechpc.com.au
MOBLIE	0424424178

## Name of test material

ACTFLEX 101 UV

### Description of test material

ACRYLIC UV RESISTANT POLYUREHTANE MEMBRANE

## Date of receipt of test material

31/07/2023

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WORLD RECOGNISED ACCREDITATION Accredited for compliance with ISO/IEC 17025 – Testing 20678

### Testing Facility and Location

NAME	XTec Gen Pty Ltd
ADDRESS	30-32 Park Avenue
	Woodville North 5012
ABN	22634729294

## LIMITATION

The test results reported here relate only to the items tested.

## CUSTOMER SUPPLIED INFORMATION & DATA

Number of coats: 2 coats at 0.925mm WFT per coat

Expected Dry Film thickness: 1.2mm 1200-micron finish coat.

Dried film supplied.

## TERMS AND CONDITIONS

This report is issued in accordance with the Terms and Conditions as detailed and agreed in the *XTecGen Test Request and Sample Submission Form*.

## SIGNATORIES



Reviewer

Eric Scardigno

Laboratory Manager

Head Laboratory Technician

Michael Bakanyozo

Author

Laboratories"	
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## SUMMARY OF TESTS

#### AS4654.1 Requirements:

PROPERTY	METHOD	RESULT	ASSESSMENT	ASSESSMENT
Abrasion Resistance: Non-Trafficable	AS 1580.403.2	0.071mm	AS 4654.1 Paragraph 2.3	Meets requirement for non-trafficable membrane
Abrasion Resistance: Trafficable	AS 1580.403.2	0.156mm	AS 4654.1 Paragraph 2.3	Meets requirement for pedestrian traffic only
Bond Strength	ASTM C794	29.02N	State result	
Acceptance of Cyclic movement	AS 4654.1 Appendix B	Failure not observed	AS 4654.1 Appendix B, Paragraph B4	PASS
Durability: Control Elongation at Break	AS1145.3	434 %	AS 4654.1 Appendix A, Table A1	CLASS III
Durability: Control Tensile Strength		4.26 MPa	State result	
Durability: Water Immersion Elongation at Break		596%	AS 4654.1 Appendix A, Table A4	PASS
Durability: Water Immersion Tensile Strength	AS 4654.1	1.52 MPa	State result	
Durability: Detergent Immersion Elongation at Break	Appendix A	706 %	AS 4654.1 Appendix A, Table A4	PASS
Durability: Detergent Immersion Tensile Strength		2.83 MPa	State result	
Durability: Heat Aging Elongation at Break	N/A	338 %	AS 4654.1, Table A4	PASS
Durability: Heat Aging Tensile Strength		3.51 MPa	State result	

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Durability: Ultraviolet			AS 4654.1	
Resistance	111/1 amp	317 %	Appendix A,	PASS
Elongation at Break	ov Lump		Table A4	
Durability: Ultraviolet				
Resistance		2.73 MPa	State result	
Tensile Strength				
Temperature		$2.07 a / m^2 / 2.4$		
Resistance: Water	AMTM004	3.0/g/m /24	State result	
Vapour Transmission		nours		
Water Vapour		3.07g/m <sup>2</sup> /24	State result	
Transmission	ASTIVI E90	hours	Sidle result	

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## ABRASION RESISTANCE: NON-TRAFFICABLE

### Testing

Test carried out in accordance with AS 1580.403.2.

#### Additions, deviations and/or exclusions from AS1580.403.2:

Determination of abrasive wear performed as per AS4654.1, Paragraph 2.3.1

#### Results

Date of test: 06/09/2023

PARAMETER	VALUE
Abrasion assessment method	Depth of abrasion
Depth of abrasion	0.071mm
Abrasive wheels: Model	CS-10
Panel 1 Abrasive wheels: Serial Number & Expiry Date	KX03C1 DEC 2024
Panel 2 Abrasive wheels: Serial Number & Expiry Date	KX03C1 DEC 2024
Mass applied to abrasive wheels	1000g
Model of abraser	Gester GT-C14B-2
Number of cycles per test panel	500

PANEL	READING	THICKNESS	THICKNESS	LOSS OF
		BEFORE	AFTER	MEMBRANE
		ABRASION	ABRASION	BUILD
		(mm)	(mm)	(mm)
1	1	3.286	3.250	0.036
	2	3.283	3.280	0.003
	3	3.051	3.048	0.003
2	1	3.168	3.052	0.116
	2	3.240	3.003	0.237
	3	3.338	3.309	0.029
Mean		3.228	3.157	0.071
Standard D	eviation	0.135	0.126	0.091

Passing Requirement: "When tested in accordance with AS 1580.403.2 using the CS-10 wheel with 500 cycles, for areas subjected only to maintenance access, the depth of abrasion shall be less than 0.2mm"

Result: 0.071mm. This sample is suitable for areas subjected to only maintenance access.

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## ABRASION RESISTANCE: TRAFFICABLE

### Testing

Test carried out in accordance with AS 1580.403.2.

#### Additions, deviations and/or exclusions from AS 1580.403.2:

Determination of abrasive wear performed as per AS4654.1, Paragraph 2.3.2

#### Results

Date of test: 06/09/2023

PARAMETER	VALUE
Abrasion assessment method	Depth of abrasion
Depth of abrasion	0.156mm
Abrasive wheels: Model	H-22
Panel 1 Abrasive wheels: Serial Number	MG25B1
Panel 2 Abrasive wheels: Serial Number	MG25B1
Mass applied to abrasive wheels	1000g
Model of abraser	Gester GT-C14B-2
Number of cycles per test panel	1000

PANEL	READING	THICKNESS	THICKNESS	LOSS OF
		BEFORE	AFTER	MEMBRANE
		ABRASION	ABRASION	BUILD
		(mm)	(mm)	(mm)
1	1	3.531	3.261	0.270
	2	3.440	3.380	0.060
	3	3.216	3.052	0.164
2	1	3.209	3.069	0.140
	2	3.056	2.926	0.130
	3	3.075	2.906	0.169
Mean		3.255	3.099	0.156
Standard D	eviation	0.162	0.166	0.068

#### Passing Requirement:

"Abrasion resistance for trafficable shall be as follows:

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- a) When tested in accordance with AS 1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected only to pedestrian traffic, the depth of abrasion shall be less than 0.2mm.
- b) When tested in accordance with AS1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected only to occasional service vehicle traffic, the depth of abrasion shall be less than 0.1mm.
- c) When tested in accordance with AS 1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected to regular foot traffic, the depth of abrasion shall be less than 0.05mm."

Result: The test achieved a depth of abrasion of 0.156mm This sample is suitable for only pedestrian traffic.

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## BOND STRENGTH

Date of test: 28/09/2023

### Testing:

#### Testing carried out in accordance with ASTM C794.

## Additions, deviations and/or exclusions from ASTM C794:

Nil

### Specimen Preparation:

PARAMETER	VALUE
Substrate	Concrete block
Substrate preparation	Wiped with damp cloth, then primed
Substrate primer	EP250
Mesh preparation	Wiped with damp cloth, then primed
Mesh primer	EP250

### Test Results:

READING	PEAK PEEL	MODE OF FAILURE			
(N)		SUBSTRATE FAILURE (%)	ADHESIVE FAILURE (%)	COHESIVE FAILURE (%)	SCREEN DELAMINATION (%)
Specimen 1 Reading 1	22.38	100	0	0	0
Specimen 1 Reading 2	21.56	95	0	5	0
Specimen 1 Reading 3	40.38	80	0	10	10
Specimen 1 Reading 4	38.32	90	0	10	0
Specimen 2 Reading 1	63.33	0	0	0	100
Specimen 2 Reading 2	45.34	0	0	50	50

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-					
Specimen 2					
Reading 3	29.41	0	0	40	60
Specimen 2					
Reading 4	15.68	0	0	100	0
Specimen 3					
Reading 1	6.83	100	0	0	0
Specimen 3					
Reading 2	22.70	100	0	0	0
Specimen 3					
Reading 3	29.43	100	0	0	0
Specimen 3					
Reading 4	12.93	100	0	0	0
Average					
	29.02				
Std Dev					
	15.75				

Result: 29.02N

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## CYCLIC MOVEMENT

Date of test: 21/08- 25/08/2023

### Testing:

Testing carried out in accordance with AS 4654.1 Appendix B "Assessment of resistance of waterproofing membranes to cyclic movement"

### Additions, deviations and/or exclusions from AS 4654.1 Appendix B:

Nil

#### Test Parameters:

PARAMETER	VALUE
Membrane class	111
Number of cycles	50
Cycle time	2 Hours
Cycle expansion	4 mm
Sample Size	65 mm x 25 mm
Sample span	2 mm between plates
Sample thickness	1.142 mm

#### Test Results:

TEST RESULT	VALUE
Number of cycles completed	50
Surface crazing	Nil
Surface tears	Nil
Membrane rupture	Nil

#### Test Observations:

DAY	DATE	NUMBER	Failure Observed		
		OF	RUPTURE/HOLING		OTHER
		CYCLES			
1	21/08/2023	0	□Yes	√No	
2	22/08/2023	12	□Yes	√No	
3	23/08/2023	24	□Yes	√No	
4	24/08/2023	25	□Yes	√No	
5	25/08/2023	50	□Yes	√No	

Passing requirement: "Any rupture holing the specimen or extending through the thickness for more than 1mm in from the edge of the specimen shall be taken as a failure and the number of cycles to failure shall be reported. If failure does not occur after 50 cycles it shall be reported together with the

	Luborutories	
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Result: Pass. Meets the requirement for CSIRO moving joint test as per AS 4654.1 Appendix B.

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## DURABILITY OF MEMBRANE

### CONTROL SET

Date of test: 09/08/2023

#### Testing: Test carried out in accordance with AS 1145.3.

#### Additions, deviations and/or exclusions from AS 1145.3: Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.9-25.7°C
Ambient humidity (conditioning)	46.2-52.2% RH
Ambient temperature (testing)	23.6°C
Ambient humidity (testing)	29.7% RH
Accuracy grading of test machine	A
Specimen type	Туре 2
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Dry film
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

#### **Test Results:**

Replicate	Sample thickness (mm)	Maximum Extension (mm)	Tensile Strength (MPa)	Elongation at Break (%)
1	1 1/	722 1	1.21	466
<b>1</b>	1.14	233.1	4.24	400
2	1.16	220.6	4.24	441
3	1.15	207.5	4.27	415
4	1.18	226.2	4.27	452
5	1.14	198.9	4.27	398
Mean	1.15	217.3	4.26	434
Std Deviation	0.02	13.9	0.02	28

Requirement for Class III (high extensibility): ≥300% elongation at break

Requirement for Class II (medium extensibility) 60-299% elongation at break

Requirement for Class I (low extensibility) <60% elongation at break.

#### **Classification: Class III**

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## DURABILITY OF MEMBRANE

### WATER IMMERSION

Date of test: 21/08-9/10/2023

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4.

Additions, deviations and/or exclusions from AS 4654.1 Table A4.

Nil

#### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.9-25.7°C
Ambient humidity (conditioning)	46.2-52.2% RH
Ambient temperature (testing)	21.9-25.2°C
Ambient humidity (testing)	30.7-51.3%
Minimum accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Dry Film
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

### Test Results:

Sample Number	Sample	Maximum	Tensile strength	Elongation at
	thickness	Extension	(MPa)	break (%)
	(mm)	(mm)		
1	1.27	291.8	1.30	583
2	1.28	287.3	1.32	574
3	1.26	289.7	1.34	579
7 Day Means	1.27	289.6	1.32	579
7 Day Std Devs	0.01	2.3	0.02	5
4	1.23	320.5	1.44	641
5	1.25	286.7	1.39	573
6	1.38	267.4	1.27	535
28 Day Means	1.29	291.6	1.37	583
28 Day Std Devs	0.08	26.9	0.08	54
7	1.21	300.5	1.54	601

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8	1.24	292.2	1.52	584
9	1.26	301.4	1.51	603
56 Day Means	1.24	298.0	1.52	596
56 Day Std Devs	0.03	5.1	0.02	10

Passing Requirement: "Elongation at break shall not be less than 25% retention of elongation at break of the controls" 58] Table 6.1. A failure is for less than 25% retention of elongation at break of the controls".

To pass this condition an elongation at break value of 109% or greater is required.

Result: 596% PASS

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## DURABILITY OF MEMBRANE

### DETERGENT IMMERSION

Date of test: 21/08-9/10/2023

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4.

#### Additions, deviations and/or exclusions from AS 4654.1 Table A4:

Nil

#### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.9-25.7°C
Ambient humidity (conditioning)	46.2-52.2% RH
Ambient temperature (testing)	21.9-25.2°C
Ambient humidity (testing)	30.7-51.3%
Minimum accuracy grading of test machine	А
Specimen type	Type 2
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Dry film
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

### Test Results: Detergent Immersion

Sample Number	Sample thickness (mm)	Maximum Extension (mm)	Tensile strength (MPa)	Elongation at break (%)
1	0.87	504.0	4.19	1008
2	0.84	434.8	4.06	869
3	0.85	495.5	4.33	991
7 Day Means	0.85	478.1	4.19	956
7 Day Std Devs	0.01	37.8	0.14	76
4	0.85	472.8	3.61	945
5	0.84	481.4	3.83	963
6	0.84	469.1	3.92	938
28 Day Means	0.84	474.4	3.78	949
28 Day Std Devs	0.01	6.3	0.16	13

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7	0.90	365.7	2.64	731
8	0.88	348.1	2.94	696
9	0.89	345.2	2.90	690
56 Day Means	0.89	353.0	2.83	706
56 Day Std Devs	0.01	11.1	0.16	22

Passing Requirement: "Elongation at break shall not be less than 25% retention of elongation at break of the controls".

To pass this condition an elongation at break value of 109 % or greater is required.

Result: 706% PASS

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## DURABILITY OF MEMBRANE

### HEAT AGING

Date of test: 04/09/2023

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4.

#### Additions, deviations and/or exclusions from AS 4654.1 Table A4:

Nil

#### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.9-25.7°C
Ambient humidity (conditioning)	46.2-52.2% RH
Ambient temperature (testing)	22.0°C
Ambient humidity (testing)	44.1% RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Dry film
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

#### **Test Results:**

Number of	Sample thickness	Maximum	Tensile strength	Elongation at
replicates	(mm)	Extension	(MPa)	break (%)
		(mm)		
1	1.15	194.9	3.63	390
2	1.15	113.2	3.39	226
3	1.16	199.8	3.50	399
Mean	1.15	169.3	3.51	338
Std Deviation	0.01	48.7	0.12	97

Passing Requirement: "Elongation at break shall be not less than 50% of the result recorded for the controls".

To pass this condition an elongation at break value of 218% or greater is required.

#### Result: 338% PASS

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## DURABILITY OF MEMBRANE

### ULTRAVIOLET EXPOSURE

Date of test: 30/10/2023

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4, Appendix A.

Additions, deviations and/or exclusions from AS 4654.1 Table A4, Appendix A:

Nil

#### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.9-25.7°C
Ambient humidity (conditioning)	46.2-52.2% RH
Ambient temperature (testing)	22.2°C
Ambient humidity (testing)	43.6% RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Dry film
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

#### Test Results:

Number of	Sample thickness	Maximum	Tensile strength	Elongation at
replicates	(mm)	Extension	(MPa)	break (%)
		(mm)		
1	1.22	150.3	2.81	301
2	1.22	161.5	2.67	323
3	1.21	163.3	2.72	327
Mean	1.22	158.4	2.73	317
Std Deviation	0.01	7.0	0.07	14

Passing Requirement: "Elongation at break shall be not less than 40% of the result recorded for the controls".

To pass this condition an elongation at break value of 174% or greater is required.

#### Result: 317% PASS

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## **TEMPERATURE RESISTANCE**

Date of test: 11/09-25/09-2023

### Testing:

Test carried out in accordance with AMTM004.

# Additions, deviations and/or exclusions from AMTM004:

Nil

### Test Parameters:

PARAMETER	VALUE
Cold exposure: Immersion date	04/09/2023
Cold exposure: Removal date	06/09/2023
Cold exposure: Temperature range	-1517°C
Heat exposure: Immersion date	06/09/2023
Heat exposure: Removal date	08/09/2023
Heat exposure: temperature range	85°C
WVT: Date of test	11/09-25/09-2023
WVT: Test temperature	22.8-24.4°C
WVT: Test humidity	48.3-53.4% RH
WVT: Cup design	Round, anodised aluminium cup with threaded sealing ring
	and gasket
WVT: Cup sealant	Sealing ring and gasket
WVT: Desiccant	Anhydrous Calcium Chloride

## Test Results- Temperature Resistance

SAMPLE	THICKN	SIDE OF	REGRESSION		WATER
	ESS	SPECIMEN			VAPOUR
	(mm)	HIGHER VAPOUR PRESSURE WAS APPLIED	EQUATION	r <sup>2</sup> VALUE	TRANSMISSON RATE (g/m²/24 hours)
		то			
1		Side A, top of	Mass <sub>(g)</sub> = 0.0004x(Time <sub>hr</sub> )+168.11	0.9954	
	1.13	cast film			2.88
2		Side A, top of	Mass <sub>(g)</sub> = 0.0005x(Time <sub>hr</sub> )+167.54	0.9979	
	1.11	cast film			3.62

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3		Side B, bottom	Mass <sub>(g)</sub> = 0.0004x(Time <sub>hr</sub> )+192.39	0.9966	
	1.13	of cast film			2.89
4		Side B, bottom	Mass <sub>(g)</sub> = 0.0004x(Time <sub>hr</sub> )+171.11	0.9977	
	1.12	of cast film			2.89
Mean					3.07
Std					
Deviation					0.37

Result: 3.07g/m<sup>2</sup>/24 hours. PASS

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## WATER VAPOUR TRANSMISSION RATE

Date of test: 28/08-11/09/2023

#### Testing:

Test carried out in accordance with ASTM E96 Desiccant Method.

Additions, deviations and/or exclusions from ASTM E96 Desiccant Method: Nil

Test Parameters:

PARAMETER	VALUE
Test temperature:	22.8-24.8°C
Test humidity:	44.4-51.3% RH
Cup design:	Round, anodised aluminium cup with threaded sealing ring and gasket
Sealant:	Sealing ring and gasket
Desiccant:	Anhydrous Calcium Chloride

#### **Test Results**

SAMPLE	THICKNESS	SIDE OF	REGRESSION		WATER
	(mm)	SPECIMEN			VAPOUR
		HIGHER	FOLIATION	2	TRANSMIS
		VAPOUR	EQUATION		SON RATE
		PRESSURE		VALUE	(g/m²/24
		WAS			hours)
		APPLIED TO			
1		Side A, top	Mass <sub>(g)</sub> =0.0006x (Time <sub>hr</sub> )+ 130.48	0.9986	
	1.08	of cast film			4.32
2		Side A, top	Mass <sub>(g)</sub> = 0.0004x(Time <sub>hr</sub> )+136.58	0.9987	
	1.11	of cast film			2.89
3		Side B,	Mass <sub>(g)</sub> = 0.0003x(Time <sub>hr</sub> )+131.08	0.9991	
		bottom of			
	1.09	cast film			2.17
4		Side B,	Mass <sub>(g)</sub> = 0.0004x(Time <sub>hr</sub> )+131.85	0.9953	
		bottom of			
	1.07	cast film			2.89
Mean	1.08				3.07
Std					
Deviation	0.02				0.90

Result: 3.07g/m<sup>2</sup>/24 hours. PASS

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