TEST REPORT

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TEST SUMMARY

Objective

Assessment of supplied sample to AS4654.1

Project

***Assessment* of FORZAFLEX RR to AS 4654.1**

Report Number

589-1 AS4654.1

Customer

NAME	Forspec Protective Coatings
ADDRESS	22/872 Canterbury Rd, Roselands 2196
CONTACT PERSON	James Gilto
EMAIL	James@forspec.com.au
TELEPHONE	02 8021 3517

Name of test material

FORZAFLEX RR

Description of test material

Mineral finish bitumen torch on root resistant

Date of receipt of test material

30/03/2026

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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

N/A

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





Author	Reviewer
Ruby Scardigno	*Eric Scardigno*
Head Laboratory Technician	*Laboratory Manager*

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SUMMARY OF TESTS

AS4654.1 Requirements:

PROPERTY	METHOD	RESULT	ASSESSMENT CRITERIA	ASSESSMENT
Abrasion Resistance: non-trafficable	*AS 1580.403.2*	***0.099 mm***	*AS 4654.1 Paragraph 2.3*	**Meets requirement for non-trafficable membrane**
Abrasion Resistance: trafficable	*AS 1580.403.2*	***0.539 mm***	*AS 4654.1 Paragraph 2.3*	**Does not meet requirements for a trafficable membrane**
Bond Strength	ASTM C794	**21.72 N**	State result	
Acceptance of Cyclic movement	AS 4654.1 Appendix B	**Failure not observed**	AS 4654.1 Appendix B, Paragraph B4	**PASS**
Dimensional Stability	*†ASTM D6207*	***No changes observed***	*State result*	
Durability: Control Elongation at Break	*AS1145.3*	***39 %***	*AS 4654.1 Appendix A, Table A1*	**CLASS I**
Durability: Control Tensile Strength		***2.31 MPa***	*State result*	
Durability[1]: Water Immersion Elongation at Break	*AS 4654.1 Appendix A*	***40 %***	*AS 4654.1 Appendix A, Table A4*	**PASS**
Durability: Water Immersion Tensile Strength		***2.25 MPa***	*State result*	
Durability: Detergent Immersion Elongation at Break		***34 %***	*AS 4654.1 Appendix A, Table A4*	**PASS**
Durability: Detergent Immersion Tensile Strength		***1.19MPa***	*State result*	
Durability: Heat Aging Elongation at Break	*N/A*	***33 %***	*AS 4654.1 Appendix A, Table A4*	**PASS**
Durability: Heat Aging Tensile Strength		***2.32 MPa***	*State result*	

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Durability: UV Exposure Elongation at Break	*UV Lamp*	***36 %***	*AS 4654.1 Appendix A, Table A4*	**PASS**
Durability: UV Exposure Tensile Strength		***2.58 MPa***	*State result*	[redacted]
Field Seam Strength	*AMTM005*	***286.37N/25mm***	*State result*	
Temperature Resistance	*AMTM004*	***0.09 g/m²/24 hours***	*State result*	
Water Vapour Transmission	*ASTM E96*	***0.03 g/m²/24 hours***	*State 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: 14/05/2026

PARAMETER	VALUE
Abrasion assessment method	Depth of abrasion
Abrasive wheels: Model	CS-10
Panel 1 Abrasive wheels: Serial Number & Expiry Date	JX07C1- NOV 2027
Panel 2 Abrasive wheels: Serial Number & Expiry Date	JX07C1- NOV 2027
Mass applied to abrasive wheels	1000g
Model of abraser	Gester GT-C14B-2
Number of cycles per test panel	500

PANEL	READING	THICKNESS BEFORE ABRASION (mm)	THICKNESS AFTER ABRASION (mm)	LOSS OF MEMBRANE BUILD (mm)
1	1	4.187	4.070	0.117
	2	4.121	4.031	0.090
	3	4.020	3.938	0.082
2	1	4.066	3.930	0.136
	2	4.025	3.926	0.099
	3	4.002	3.935	0.067
Mean		4.070	3.972	0.099
Standard Deviation		0.084	0.068	0.025

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: 0.099mm. This sample is suitable for areas subjected only to 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: 14/05/2026

PARAMETER	VALUE
Abrasion assessment method	Depth of abrasion
Abrasive wheels: Model	H-22
Panel 1 Abrasive wheels: Serial Number	KL31B1
Panel 2 Abrasive wheels: Serial Number	KL31B1
Mass applied to abrasive wheels	1000g
Model of abraser	Gester GT-C14B-2
Number of cycles per test panel	1000

PANEL	READING	THICKNESS BEFORE ABRASION (mm)	THICKNESS AFTER ABRASION (mm)	LOSS OF MEMBRANE BUILD (mm)
1	1	4.114	3.582	0.532
	2	4.203	3.626	0.577
	3	4.128	3.529	0.599
2	1	4.128	3.595	0.533
	2	4.070	3.545	0.525
	3	4.073	3.608	0.465
Mean		4.119	3.581	0.539
Standard Deviation		0.048	0.049	0.046

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Passing Requirement:

"*Abrasion resistance for trafficable shall be as follows:*

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 vehicle traffic, the depth of abrasion shall be less than 0.05mm."**

Result: 0.539mm. This sample does not meet the requirements for a trafficable membrane

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BOND STRENGTH

Date of test: 2/06/2026

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
Substrate primer	N/A

Test Results:

READING	PEAK PEEL FORCE (N)	MODE OF FAILURE			
		SUBSTRATE FAILURE (%)	ADHESIVE FAILURE (%)	COHESIVE FAILURE (%)	SCREEN DELAMINATION (%)
Specimen 1 Reading 1	24.13	0	0	0	100
Specimen 1 Reading 2	35.93	0	0	0	100
Specimen 1 Reading 3	37.15	0	0	0	100
Specimen 1 Reading 4	28.82	0	0	0	100
Specimen 2 Reading 1	4.63	0	0	0	100
Specimen 2 Reading 2	10.72	0	0	0	100

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Specimen 2 Reading 3	11.37	0	0	0	100
Specimen 2 Reading 4	12.52	0	0	0	100
Specimen 3 Reading 1	21.90	0	0	0	100
Specimen 3 Reading 2	23.85	0	0	0	100
Specimen 3 Reading 3	24.95	0	0	0	100
Specimen 3 Reading 4	24.69	0	0	0	100
Average	21.72				
Std Dev	10.11				

Result: 21.72N

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CYCLIC MOVEMENT

Date of test: 4-8/05/2026

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	I
Number of cycles	50
Cycle time	2 Hours
Cycle expansion	0.39 mm
Sample Size	65 mm x 25 mm
Sample span	2 mm between plates
Sample thickness	4.13 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 OF CYCLES	Failure Observed		
			RUPTURE/HOLING		OTHER
1	4/05/2026	0	☐Yes	☒No	
2	5/05/2026	13	☐Yes	☒No	
3	6/05/2026	26	☐Yes	☒No	
4	7/05/2026	38	☐Yes	☒No	
5	8/05/2026	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*

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types of any surface defects that have been induced and the number of cycles at which onset of the defect occurred"

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

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DIMENSIONAL STABILITY

Date of test: 13-16/04/2026

Testing:

Testing carried out in accordance with ASTM D6207 "Standard Test Method for Dimensional Stability of Fabrics to Changes in Humidity and Temperature"

Additions, deviations and/or exclusions from ASTM D6207:

Nil

Test Parameters:

PARAMETER	MEASUREMENT INSTRUMENT	
Preconditioning temperature at 24Hrs	32°C	AMTE042A
Precondition humidity at 24Hrs	15%RH	AMTE042A
Method of sampling used	Test Specimens 150 by 800mm from lengthwise direction and width wise direction of the roll	

MEASUREMENT

			Cycle 1				*Cycle 2*			
	Initial Pointer Setting	*Date*	*Pointer Reading at 95% RH & 20°C*	*Date*	*Pointer Reading at 15% RH & 32°C*	*Date*	*Pointer Reading at 95% RH & 20°C*	*Date*	*Pointer Reading at 15% RH & 32°C*	*Date*
Width wise	*150*	*13/04*	*150*	*14/04*	*150*	*15/04*	*150*	*15/04*	*150*	*16/04*
Length wise	*800*	*13/04*	*800*	*14/04*	*800*	*15/04*	*800*	*15/04*	*800*	*16/04*

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DURABILITY OF MEMBRANE

CONTROL SET

Date of test: 8/04/2026

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)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	23°C
Ambient humidity (testing)	46% RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

Test Results:

Replicate	Sample thickness (mm)	Maximum Extension (mm)	Tensile Strength (MPa)	Elongation at Break (%)
1	4.22	21.4	1.95	42
2	4.13	17.6	2.32	35
3	4.08	21.1	2.70	42
4	4.09	18.1	2.61	36
5	4.12	18.9	1.96	38
Mean	4.13	19.4	2.31	39
Std Deviation	0.06	1.7	0.35	3

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 I

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DURABILITY OF MEMBRANE

WATER IMMERSION

Date of test: 14/04-2/06/2026

Testing:

Test carried out in accordance with AS 4654.1 Appendix A.

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

Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	22.4-22.7°C
Ambient humidity (testing)	50.6-54.6% RH
Minimum accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

Test Results:

Sample Number	Sample thickness (mm)	Maximum Extension (mm)	Tensile strength (MPa)	Elongation at break (%)
1	4.20	22.8	2.38	46
2	4.08	17.2	2.81	34
3	4.04	15.5	2.63	31
7 Day Means	4.11	18.5	2.61	37
7 Day Std Devs	0.08	3.8	0.21	8
4	4.17	20.1	2.63	40
5	4.10	16.7	2.17	33
6	4.17	17.1	2.42	34
28 Day Means	4.15	18.0	2.41	36
28 Day Std Devs	0.04	1.9	0.23	4
7	4.03	20.0	2.35	40
8	4.02	20.9	2.16	42

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9	4.02	19.0	2.23	38
56 Day Means	4.02	20.0	2.25	40
56 Day Std Devs	0.01	0.9	0.09	2

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 10% or greater is required.

Result: 40% PASS

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DURABILITY OF MEMBRANE

DETERGENT IMMERSION

Date of test: 14/04-2/06/2026

Testing:

Test carried out in accordance with AS 4654.1 Appendix A.

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

Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	22.4-22.7°C
Ambient humidity (testing)	50.6-54.6% RH
Minimum accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
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	4.00	19.6	2.26	39
2	3.98	15.3	2.86	31
3	3.98	16.8	2.54	34
7 Day Means	3.99	17.3	2.55	35
7 Day Std Devs	0.01	2.2	0.30	4
4	4.16	25.9	2.54	52
5	4.10	18.9	2.56	38
6	4.07	20.0	2.63	40
28 Day Means	4.11	21.6	2.58	43
28 Day Std Devs	0.05	3.8	0.05	8
7	4.15	19.0	1.83	38
8	4.11	16.1	1.93	32

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9	4.19	15.3	2.22	31
56 Day Means	4.15	16.8	1.99	34
56 Day Std Devs	0.04	2.0	0.21	4

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 10% or greater is required.

Result: 34% PASS

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DURABILITY OF MEMBRANE

HEAT AGING

Date of test: 24/04/2026

Testing:

Test carried out in accordance with AS 4654.1 Appendix A.

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

Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	23.6°C
Ambient humidity (testing)	39.9% RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

Test Results:

Number of replicates	Sample thickness (mm)	Maximum Extension (mm)	Tensile strength (MPa)	Elongation at break (%)
1	4.03	15.4	2.13	31
2	3.99	20.6	2.36	41
3	3.97	13.0	2.46	26
Mean	3.99	16.3	2.32	33
Std Deviation	0.03	3.9	0.17	8

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 20% or greater is required.

Result: 33% PASS

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DURABILITY OF MEMBRANE

ULTRAVIOLET EXPOSURE

Date of test: 4/06/2026

Testing:

Test carried out in accordance with AS 4654.1 Appendix A.

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

Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	23.5°C
Ambient humidity (testing)	49.8% RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

Test Results:

Number of replicates	Sample thickness (mm)	Maximum Extension (mm)	Tensile strength (MPa)	Elongation at break (%)
1	4.10	12.7	2.43	25
2	4.05	18.7	2.57	37
3	4.10	21.9	2.75	44
Mean	4.08	17.8	2.58	36
Std Deviation	0.02	4.7	0.16	9

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 16% or greater is required.

Result: 36% PASS

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FIELD SEAM STRENGTH

Date of test: 2/06/2026

Testing: Test carried out in accordance with AMTM005.

Additions, deviations and/or exclusions from AMTM005: Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.3°C
Ambient humidity (conditioning)	50.2-53.4% RH
Ambient temperature (testing)	24.1°C
Ambient humidity (testing)	52.3% RH
Accuracy grading of test machine	A
Elongation measurement type:	Electronic internal measurement
Clamping device:	Pneumatic jaws
Testing speed:	100mm/min

Test Results:

Replicate	Peak Force (N/25mm)	Mode of Failure	
		Lap joint	Sheet
1	299.88	☒	☐
2	258.83	☒	☐
3	293.63	☒	☐
4	264.19	☒	☐
5	315.34	☐	☒
Mean	286.37		
Std Deviation	24.11		
Number of Failures		4	1
% Failure		80	20

Result 286.37 N/25mm

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TEMPERATURE RESISTANCE

Date of test: 20/04-4/05/2026

Testing:

Test carried out in accordance with AMTM004.

Additions, deviations and/or exclusions from AMTM004:

Nil

Test Parameters:

PARAMETER	VALUE
Cold exposure: 13-15/04/26	-16.3 - -15.1°C
Heat exposure: 15-17/04/26	85°C
WVT: Test temperature	23.2-24.3°C
WVT: Test humidity	43.0-52.7% RH
WVT: Cup design	Round, anodised aluminium cup
WVT: Cup sealant	Paraffin wax
WVT: Desiccant	Anhydrous Calcium Chloride

Test Results- Temperature Resistance

SAMPLE	THICKNESS (mm)	SIDE OF SPECIMEN HIGHER VAPOUR PRESSURE WAS APPLIED TO	REGRESSION		WATER VAPOUR TRANSMISSON RATE ($g/m^2/24$ hours)
			EQUATION	r^2 VALUE	
1	4.52	Side A, top of cast film	$Mass_{(g)}=0.00002(Time_{hr})+176.79$	0.8906	0.14
2	4.37	Side A, top of cast film	$Mass_{(g)}=0.00001(Time_{hr})+207.5$	0.7786	0.07
3	4.43	Side B, bottom of cast film	$Mass_{(g)}=0.00001(Time_{hr})+188.8$	0.78	0.07
4	4.31	Side B, bottom of cast film	$Mass_{(g)}=0.00001(Time_{hr})+188.34$	0.8455	0.07
Mean	4.41				0.09
Std Deviation	0.09				0.04

Result: 0.50 g/m^2/24 hours.

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WATER VAPOUR TRANSMISSION RATE

Date of test: 8-22/04/2026

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:	23.0-24.3°C
Test humidity:	48.9-55.0% RH
Cup design:	Round, anodised aluminium cup
Sealant:	Paraffin wax
Desiccant:	Anhydrous Calcium Chloride

Test Results

SAMPLE	THICKNESS (mm)	SIDE OF SPECIMEN HIGHER VAPOUR PRESSURE WAS APPLIED TO	REGRESSION		WATER VAPOUR TRANSMISSION RATE ($g/m^2/24$ hours)
			EQUATION	r^2 VALUE	
1	3.94	Side A, top of cast film	$Mass_{(g)}=0.000002(Time_{hr})+202.01$	0.0598	0.01
2	3.99	Side A, top of cast film	$Mass_{(g)}=0.000004(Time_{hr})+186.78$	0.1723	0.03
3	3.91	Side B, bottom of cast film	$Mass_{(g)}=0.000005(Time_{hr})+187.08$	0.2464	0.04
4	4.01	Side B, bottom of cast film	$Mass_{(g)}=0.000005(Time_{hr})+188.4$	0.2652	0.04
Mean	3.96				0.03
Std Deviation	0.05				0.01

Result: 0.03 g/m^2/24 hours.

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Report number	Issue Date	Expiry Date
589-1 AS 4654.1	02/07/2026	02/07/2029

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