

TEST REPORT



Accredited for compliance with ISO/IEC 17025 – Testing
20678

TEST SUMMARY

Objective

Assessment of supplied sample to 56 days bleach exposure

Project

Assessment of Actech Actflex 906 to AS/NZS 4858:2004 (Bleach Immersion)

Report Number

AMTS324.1-3

Customer

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

Name of test material/s

Actech Actflex 906

Description of test material/s

Grey Liquid Membrane

Date of receipt of test material/s

06/05/2024

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324.1-3	26/08/2024	26/08/2027

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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

2 coats @ 0.85mm WFT per coat, 1.2mm DFT

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

Eric Scardigno

Laboratory Manager

Reviewer

Phil Scardigno

Director

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SUMMARY OF TESTS

AS4858 Requirements:

PROPERTY	METHOD	RESULT	ASSESSMENT CRITERIA	ASSESSMENT
Durability ¹ : Control Elongation at break	AS1145.3	305 %	AS 4858 Table 5.1	Class III
Durability ¹ : Control Tensile Strength		2.07 MPa		
Durability ¹ : Bleach Immersion Elongation at break		452 %		PASS
Durability ¹ : Bleach Immersion Tensile Strength		0.08 MPa		

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324.1-2

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DURABILITY OF MEMBRANE

CONTROL SET

Date of test: 12/06/2024

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)	22.9-24.0
Ambient humidity (conditioning)	31.8%-40.1%
Ambient temperature (testing)	22.4°C
Ambient humidity (testing)	43.5% RH
Accuracy grading of test machine	A
Specimen type	Type 5
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Cast
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)	Maximum Stress (MPa)	Maximum Strain (%)
1	1.27	68.8	2.07	275
2	1.128	85.5	2.08	342
3	1.224	69.7	2.09	279
4	1.193	73.2	2.06	293
5	1.19	83.7	2.07	335
Mean	1.20	76.2	2.07	305
Std Deviation	0.05	7.9	0.01	32

Requirement for Class III (high extensibility): $\geq 300\%$ 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

BLEACH IMMERSION

Date of test: 18/06-06/08/2024

Testing:

Test carried out in accordance with AS 4858 Table A1.

Additions, deviations and/or exclusions from AS 4858 Table A1:

Nil

Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	22.9-24.9°C
Ambient humidity (conditioning)	31.8-40.1% RH
Ambient temperature (testing)	20.5-24.5°C
Ambient humidity (testing)	31.7-45.7%
Minimum accuracy grading of test machine	A
Specimen type	Type 5
Elongation measurement type:	Electronic internal measurement
Method of preparation of specimens	Cast
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 thickness (mm)	Maximum Extension (mm)	Tensile strength (MPa)	Elongation at break (%)
1	1.18	185.5	0.32	742
2	1.26	185.6	0.35	742
3	1.24	186.4	0.36	745
7 Day Means	1.23	185.8	0.35	743
7 Day Std Devs	0.04	0.5	0.02	2
4	1.48	126.0	0.11	504
5	1.45	105.9	0.10	424
6	1.37	115.4	0.10	462
28 Day Means	1.43	115.8	0.10	463
28 Day Std Devs	0.06	10.1	0.01	40
7	1.61	116.9	0.08	468

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8	1.54	125.7	0.09	503
9	1.75	96.7	0.08	387
56 Day Means	1.63	113.1	0.08	452
56 Day Std Devs	0.10	14.8	0.00	59

Passing Requirement: *“Elongation at break shall not be less than 50% of that of the controls for the bond breakers given in Table 6.1 [AS4848]. For an elongation between 50% and 25% of the controls the membrane requires additional bond relief above that given in [AS4858] 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 77% or greater is required.

Result: 452% PASS

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END OF REPORT

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