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Viking Roofspec

80 Alexander Crescent
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NEW_ZEALAND

7/03/2024

AS/NZS 4020:2018 (Incorporating Amendment No.1) for Enviroclad TPO Waterproofing Membrane submitted for testing.

Yours sincerely,

Michael Glasson
Supervisor Product Testing



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FINAL REPORT

Report ID : 379215

Report Information

Submitting Organisation : 00101620 : Viking Roofspec
Account : 145165 : Viking Roofspec
AWQC Reference : 145165-2023-CSR-1 : Prod Test: Grey and White (membranes)
Project Reference : PT-5272
Product Designation : Enviroclad TPO Waterproofing Membrane -
Composition of Product : Thermoplastic Polyolefin
Product Manufacturer : Carlisle Syntec, Ritner Hwy, Carlisle, PA, USA.
Use of Product : In-Line/Waterproofing Membrane.
Sample Selection: As provided by the submitting organisation.
Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**
Product Type : Composite
Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)
Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.
Project Completion Date : 06-Mar-2024
Project Comment : Samples received on the 26-Jun-2023, testing commenced on the 26-Jun-2023.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO ASNZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



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Notes

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Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
D – Appearance	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
E – Growth of Aquatic Micro-organisms	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
F – Cytotoxic Activity	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
G – Mutagenic Activity	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
H – Metals	Passed at an exposure of 15,000 mm ² /L (each side of both materials).
6.8 – Organic Compounds	Passed at an exposure of 15,000 mm ² /L (each side of both materials).

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y



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Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : Not applicable.



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CLAUSE 6.2 Taste

Sample Description The sample consisted of two separate tests one for each panel measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Taste (Appendix C)

Test Information

Scaling Factor Not applicable.

Results Not detected (sample and controls).

Evaluation The products passed the requirements of Clause 6.2 when tested at an exposure of 15,000 mm²/L.

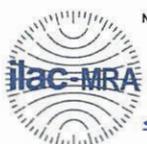
Number of Samples 4.

Test Comment Panellists detected chalky and rubber tastes when tested combined at 15,000mm²/L per side in the final (7th) extracts. Test repeated by separating each material in to separate test vessels to meet the requirements of Clause 6.2.

Michael Glasson
APPROVED SIGNATORY



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CLAUSE 6.3 Appearance

Sample Description The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Appearance (Appendix D)

Scaling Factor Not applicable.

Results

	<u>Test (- Blank)</u>	<u>Maximum Allowed</u>	<u>Units</u>
Colour	<1	5	HU
Turbidity	<0.1	0.5	NTU

Evaluation The products passed the requirements of Clause 6.3 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment Not applicable.

Andrew Ford
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CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of test water.

Test Method Growth of Aquatic Micro-organisms (Appendix E)

Inoculum The volume of the inoculum was 100 mL

Scaling Factor Not applicable.

Results

Mean Dissolved Oxygen	Control	7.4 mg/L
Mean Dissolved Oxygen Difference	Positive Reference	4.9 mg/L
	Negative Reference	<0.1 mg/L
	Test	1.70 mg/L

Evaluation The products passed the requirements of Clause 6.4 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment The positive reference value is outside the specified range in E10.2, however, the value indicates the organic substance(paraffin) still supported microbial growth, therefore is positive , and the test value is well below the positive reference value.

Thuy Diep
APPROVED SIGNATORY



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CLAUSE 6.5 Cytotoxic Activity

Sample Description The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Cytotoxic Activity (Appendix F)

Scaling Factor Not applicable.

Results	24 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death
	48 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death
	72 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death

Blank Control Results Blank; non-cytotoxic response, healthy cell morphology with <30% cell death

Positive Control Results Positive control; Cytotoxic response, unhealthy cell morphology with >70% cell death

The test extracts and blank extracts were used to prepare nutrient growth medium and subsequently used to grow a cell line (ATCC Number CCL 81) in the analysis. In addition zinc sulphate (0.4 mmol) was used for the positive control in the analysis.

Evaluation The products passed the requirements of Clause 6.5 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment Not applicable.

Mira Maric
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CLAUSE 6.6 Mutagenic Activity

Sample Description The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Mutagenic Activity (Appendix G)

Scaling Factor Not applicable.

Results

	<u>Bacteria Strain</u>		<u>Number of Revertants per Plate</u>			
	S9	Blank	Sample Extract	Positive Controls		
<i>Salmonella typhimurium</i> TA98	-	37, 42, 40	40, 40, 34	2613, 2536, 1313		<u>NPD</u> (20µg)
Mean ± Standard deviation		39.7 ± 2.5	38.0 ± 3.5	2154.0 ± 729.3		
	+	35, 27, 29	28, 32, 33	2278, 2501, 2686		<u>2-AF</u> (20µg)
Mean ± Standard deviation		30.3 ± 4.2	31.0 ± 2.6	2488.3 ± 204.3		
<i>Salmonella typhimurium</i> TA102	-	425, 510, 517	413, 400, 430	2576, 2463, 2352		<u>Mitomycin C</u> (10µg)
Mean ± Standard deviation		484.0 ± 51.2	414.3 ± 15.0	2463.7 ± 112.0		
	+	427, 457, 417	467, 493, 411	1814, 1673, 1700		
Mean ± Standard deviation		433.7 ± 20.8	457.0 ± 41.9	1729.0 ± 74.8		

The differences in the mean number of revertants between the blank and test extracts do not exceed two standard deviations; accordingly, there is no evidence of a mutagenic response.

Comments S9 was used as the metabolic activator. NPD (4-nitro-o-phenylenediamine) and Mitomycin C are specific positive controls for strains TA98 - and TA102 (- and +) respectively, while 2-AF (2-aminofluorene) when used in conjunction with S9 is a positive control for TA98+.

Evaluation The products passed the requirements of Clause 6.6 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment Not applicable.

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CLAUSE 6.7

Metals

Sample Description

The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature

20°C ± 2°C.

Test Method

Metals (Appendix H)

Scaling Factor

Not applicable.

Method of Analysis

Concentration of the metals described in Table 2 of the AS/NZS 4020:2018 are determined as follows:

Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium and Silver by Inductively Coupled Plasma Mass Spectrometry.

Results	Limit of Reporting mg/L	Blank mg/L	Test 1 mg/L	Test 2 mg/L	Max Allowed mg/L
Final Extract					
Aluminium	0.001	0.002	0.007	0.004	0.2
Antimony	0.0003	<0.0003	<0.0003	<0.0003	0.003
Arsenic	0.00006	<0.00006	<0.00006	<0.00006	0.01
Barium	0.0003	<0.0003	<0.0003	0.0003	0.7
Boron	0.020	0.054	0.025	0.021	1.4
Cadmium	0.0001	<0.0001	<0.0001	<0.0001	0.002
Chromium	0.0001	<0.0001	0.0002	<0.0001	0.05
Copper	0.0001	0.0002	<0.0001	<0.0001	2.0
Iron	0.0005	0.0011	<0.0005	<0.0005	0.3
Lead	0.0001	<0.0001	<0.0001	<0.0001	0.01
Manganese	0.0001	<0.0001	<0.0001	<0.0001	0.1
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	<0.0001	<0.0001	<0.0001	0.05
Nickel	0.0002	<0.0002	<0.0002	<0.0002	0.02
Selenium	0.0001	<0.0001	<0.0001	<0.0001	0.01
Silver	0.00002	<0.00002	<0.00002	<0.00002	0.1

Evaluation The products passed the requirements of Clause 6.7 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment Not applicable.

Dzung Bui
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CLAUSE 6.8 Organic Compounds

Sample Description The sample consisted of four panels measuring 75 mm x 100 mm with each giving an approximate surface area of 15000 mm² per Litre (each side of the material). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Organic Compounds (Clause 6.8). The maximum allowed (Max Allowed) values are taken from the Australian Drinking Water Guidelines and Drinking-water Standards for New Zealand. Please note, some reported compounds have no guideline value.

Scaling Factor Not applicable.

Results

Organic Compound

Nitrosamines	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No. N-Nitrosodimethylamine (NDMA)	ES2322670 <0.003	ES2401130 <0.003	0.1 µg/L

Organic Compound

Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2322670	ES2401130	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dimethylphenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2-chlorophenol	<1.0	<1.0	300 µg/L
2-nitrophenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
m+p cresol	<2.0	<2.0	
o-cresol	<1.0	<1.0	
pentachlorophenol	<2.0	<2.0	9 µg/L
phenol	<1.0	<1.0	

Organic Compound

Phthalate Esters	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2322670	ES2401130	
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Butyl benzyl phthalate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Diethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-octyl phthalate	<2	<2	



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Organic Compound

Polycyclic Aromatic Hydrocarbons

	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2322670	ES2401130	
Acenaphthene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Benzo(a)anthracene	<0.02	<0.02	
Benzo(a)pyrene	<0.005	<0.005	0.01 µg/L
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
PAH - Total	<0.005	<0.005	
Phenanthrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	



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Organic Compound

Organic Compound	Blank µg/L	Test µg/L	Max Allowed
Volatile Organic Compounds GCMS			
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1-Dichloropropene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloropropane	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichloropropane	<1	<1	
1 4-Dichlorobenzene	<1	<1	40 µg/L
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethene	<1	<1	30 µg/L
2,2-Dichloropropane	<1	<1	
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
Benzene	<1	<1	1 µg/L
Bromobenzene	<1	<1	
Bromochloromethane	<1	<1	
Bromodichloromethane	<1	<1	60 µg/L
Bromoform	<1	<1	100 µg/L
Bromomethane	<4	<4	
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	
Chloroform	<1	<1	400 µg/L
Chloromethane	<4	<4	
cis-1 3-Dichloropropene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
Dibromochloromethane	<1	<1	150 µg/L
Dibromomethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichloromethane	<4	<4	4 µg/L
Ethylbenzene	<1	<1	300 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Isopropylbenzene	<1	<1	
m+p-Xylenes - Total	<2	<2	



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Organic Compound	Blank	Test	Max Allowed
Volatile Organic Compounds GCMS	µg/L	µg/L	
Naphthalene	<1	<1	
n-Butylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
o-Xylene	<1	<1	
sec-Butylbenzene	<1	<1	
Styrene	<1	<1	30 µg/L
tert-Butylbenzene	<1	<1	
Tetrachloroethene	<1	<1	50 µg/L
Toluene	<1	<1	800 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Xylene	<3	<3	600 µg/L
trans-1 3-Dichloropropene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichlorofluoromethane	<1	<1	
Trihalomethanes - Total	<4	<4	250 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L

Evaluation The products passed the requirements of Clause 6.8 when tested at an exposure of 15,000 mm²/L.

Number of Samples 1.

Test Comment Not applicable.

Qiong Huang

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