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Email: producttesting@awqc.com.au

FINAL REPORT

Report ID : 390492

Report Information

Submitting Organisation : 00109358 : Parchem Construction Supplies Pty Ltd
Account : 130335 : Parchem Construction Supplies Pty Ltd
AWQC Reference : 130335-2024-CSR-3 : Prod Test: Fosroc Nitoseal PU400
Project Reference : PT-5560
Product Designation : Fosroc Nitoseal PU400 Polyurethane Joint Sealant
Composition of Product : Single Component Polyurethane Polymer.
Product Manufacturer : Parchem Construction Supplies, Wyong, NSW, AUSTRALIA.
Use of Product : In-Line/Polyurethane Joint Sealant for Sealing Moving Joints in Water Retaining Structures
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 : 16-Sep-2024
Project Comment : Sample received 20-May-2024, testing commenced post application and cure on 03-Jun-2024. The sealant was applied (to glass slides) and cured for 7 days at 20°C prior to testing

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 AS/NZS 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 2500 mm ² per Litre.
D – Appearance	Passed at an exposure of 2500 mm ² per Litre.
E – Growth of Aquatic Micro-organisms	Passed at an exposure of 2500 mm ² per Litre.
F – Cytotoxic Activity	Passed at an exposure of 2500 mm ² per Litre.
G – Mutagenic Activity	Passed at an exposure of 2500 mm ² per Litre.
H – Metals	Passed at an exposure of 2500 mm ² per Litre.
6.8 – Organic Compounds	Passed at an exposure of 2500 mm ² per Litre.

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

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



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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 : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.



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CLAUSE 6.2 Taste

Sample Description The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

Results Not detected (sample and controls).

Evaluation The product passed the requirements of clause 6.2 when tested at an exposure of 2500 mm² per Litre.

Number of Samples 2.

Test Comment Not applicable.

Peter Christopoulos
APPROVED SIGNATORY



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CLAUSE 6.3 Appearance

Sample Description The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

Results

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

Evaluation The product passed the requirements of clause 6.3 when tested at an exposure of 2500 mm² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Andrew Ford
APPROVED SIGNATORY



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CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

Results

Mean Dissolved Oxygen	Control	7.6 mg/L
Mean Dissolved Oxygen Difference	Positive Reference	5.0 mg/L
	Negative Reference	0.3 mg/L
	Test	1.10 mg/L

Evaluation The product passed the requirements of clause 6.4 when tested at an exposure of 2500 mm² per Litre.

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 sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

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 product passed the requirements of clause 6.5 when tested at an exposure of 2500 mm² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Mira Maric
APPROVED SIGNATORY



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CLAUSE 6.6 Mutagenic Activity

Sample Description The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

Results

Bacteria Strain	Number of Revertants per Plate				
	S9	Blank	Sample Extract	Positive Controls	
<i>Salmonella typhimurium</i> TA98	-	23, 31, 21	21, 29, 24	4347, 3414, 3410	<u>NPD</u> (20µg)
Mean ± Standard deviation		25.0 ± 5.3	24.7 ± 4.0	3723.7 ± 539.8	
	+	19, 26, 30	24, 31, 31	4033, 4426, 4825	<u>2-AF</u> (20µg)
Mean ± Standard deviation		25.0 ± 5.6	28.7 ± 4.0	4428.0 ± 396.0	
<i>Salmonella typhimurium</i> TA102	-	356, 395, 409	305, 354, 393	3770, 3607, 3644	<u>Mitomycin C</u> (10µg)
Mean ± Standard deviation		386.7 ± 27.5	350.7 ± 44.1	3673.7 ± 85.5	
	+	201, 218, 310	323, 318, 336	2647, 2977, 2361	
Mean ± Standard deviation		243.0 ± 58.6	325.7 ± 9.3	2661.7 ± 308.3	

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 product passed the requirements of clause 6.6 when tested at an exposure of 2500 mm² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Peter Christopoulos
APPROVED SIGNATORY



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CLAUSE 6.7

Metals

Sample Description

The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

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	0.006	0.007	0.006	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	0.0005	0.0005	0.7
Boron	0.020	0.022	0.020	0.020	1.4
Cadmium	0.0001	<0.0001	<0.0001	<0.0001	0.002
Chromium	0.0001	<0.0001	<0.0001	<0.0001	0.05
Copper	0.0001	0.0006	0.0002	0.0002	2.0
Iron	0.0005	<0.0005	<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 product passed the requirements of clause 6.7 when tested at an exposure of 2500 mm² per Litre.

Number of Samples

1.

Test Comment

Not applicable.

Dzung Bui
APPROVED SIGNATORY



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CLAUSE 6.8 Organic Compounds

Sample Description The sealant was applied onto a single sided glass substrate (single side) measuring 50mm x 50 mm and providing a total surface area of approximately 2500 mm² per Litre. 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 applied.

Results

Organic Compound

Nitrosamines	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2420171	ES2420171	
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L

Organic Compound Phenols

Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2420171	ES2420171	
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.	ES2420171	ES2420171	
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.	ES2420171	ES2420171	
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	4	300 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Isopropylbenzene	<1	<1	
m+p-Xylenes - Total	<2	18	



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Organic Compound	Blank µg/L	Test µg/L	Max Allowed
Volatile Organic Compounds GCMS			
Naphthalene	<1	<1	
n-Butylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
o-Xylene	<1	12	
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	30	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 product passed the requirements of clause 6.8 when tested at an exposure of 2500 mm² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Rashed Hoque

APPROVED SIGNATORY



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