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## FINAL REPORT

Report ID : 314208

### Report Information

**Submitting Organisation :** 00109358 : Parchem Construction Supplies Pty Ltd  
**Account :** 130335 : Parchem Construction Supplies Pty Ltd  
**AWQC Reference :** 130335-2021-CSR-2 : Prod Test: Nitoseal PU400 (Organic Compounds & Metals)  
**Project Reference :** PT-4620  
**Product Designation :** Fosroc Nitoseal PU400 - Polyurethane Joint Sealant.  
**Composition of Product :** Polyurethane Polymer.  
**Product Manufacturer :** Parchem Construction Supplies, Wyong, NSW, AUSTRALIA.  
**Use of Product :** In-Line/Polyurethane Joint Sealant.  
**Sample Selection:** As provided by the submitting organisation.  
**Testing Requested :** **AS/NZS 4020 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  
  
**Extracts :** Extracts were prepared as described in Appendix/Clause H, 6.8.  
**Project Completion Date :** 20-Jul-2021  
**Project Comment :** Product sample received in the week 03-May-2021, testing commenced 17-May-2021. Refer to Test Report No. 249024 (AWQC Project Reference PT-3760) for additional test information.

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. 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

Michael Glasson  
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### Summary of Results

APPENDIX/CLAUSE	RESULTS
H – Metals	Passed at an exposure of 2500 mm <sup>2</sup> per Litre.
6.8 – Organic Compounds	Passed at an exposure of 2500 mm <sup>2</sup> per Litre.

### Test Methods

Test(s) in Appendix	AWQC Test Method	Reference Method
H	TIC-006	EPA 200.8

### Organic Test Methods

Test(s) in Clause	Test Method	Reference Method
Clause 6.8	TMZ-M36	USEPA524.2
	EP239	USEPA521
	EP132-LL	USEPA_SW846-8270D
	EP075C	USEPA_SW846-8270D
	EP075ASIM	USEPA_SW846-8270D

**Summary Comment :** The sealant was applied (to glass slides) and cured for 7 days at 20°C prior to testing.



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**CLAUSE 6.7**

**Metals**

**Sample Description**

The sealant was applied onto a single sided glass substrate (25mm x 100mm) providing a total surface area of approximately 2500 mm<sup>2</sup> 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**

All methods used to determine concentrations of metals are based on those described in the US EPA method 200.8 Determination of Trace elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry. The methods have been adapted for the instrumentation in use at the Australian Water Quality Centre.

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
<b>Final Extract</b>					
Aluminium	0.001	0.020	0.006	0.005	0.2
Antimony	0.0005	<0.0005	<0.0005	<0.0005	0.003
Arsenic	0.0003	<0.0003	<0.0003	<0.0003	0.01
Barium	0.0005	0.0258	<0.0005	<0.0005	0.7
Boron	0.020	<0.020	<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	0.1305	<0.0001	0.0002	2.0
Iron	0.0005	0.0093	<0.0005	<0.0005	0.3
Lead	0.0001	0.0013	<0.0001	<0.0001	0.01
Manganese	0.0001	0.0004	<0.0001	0.0001	0.1
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	0.0002	<0.0001	<0.0001	0.05
Nickel	0.0001	0.0010	<0.0001	<0.0001	0.02
Selenium	0.0001	<0.0001	<0.0001	<0.0001	0.01
Silver	0.00003	<0.00003	<0.00003	<0.00003	0.1

**Evaluation**

The product passed the requirements of clause 6.7 when tested at an exposure of 2500 mm<sup>2</sup> per Litre.

**Number of Samples**

1.

**Test Comment**

Not applicable.



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### CLAUSE 6.8 Organic Compounds

**Sample Description** The sealant was applied onto a single sided glass substrate (25mm x 100mm) providing a total surface area of approximately 2500 mm<sup>2</sup> 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). 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.	ES2119162	ES2120961	
!External Lab Report No.	ES2120960	ES2120961	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
Nitrosomorpholine (NMor)	<0.003	<0.003	
Nitrosomorpholine (NMor)	<0.003	<0.003	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	



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**Organic Compound**

Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2120960	ES2120961	
!External Lab Report No.	ES2119162	ES2120961	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dimethylphenol	<1.0	<1.0	
2 4-dimethylphenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2-chlorophenol	<1.0	<1.0	300 µg/L
2-chlorophenol	<1.0	<1.0	300 µg/L
2-nitrophenol	<1.0	<1.0	
2-nitrophenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
m+p cresol	<2.0	<2.0	
m+p cresol	<2.0	<2.0	
o-cresol	<1.0	<1.0	
o-cresol	<1.0	<1.0	
pentachlorophenol	<2.0	<2.0	9 µg/L
pentachlorophenol	<2.0	<2.0	9 µg/L
phenol	<1.0	<1.0	
phenol	<1.0	<1.0	

**Organic Compound**

Phthalate Esters	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2119162	ES2120961	
!External Lab Report No.	ES2120960	ES2120961	
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Butyl benzyl phthalate	<2	<2	
Butyl benzyl phthalate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Diethyl phthalate	<2	<2	
Diethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-octyl 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.	ES2119162	ES2120961	
!External Lab Report No.	ES2120960	ES2120961	
Acenaphthene	<0.02	<0.02	
Acenaphthene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Benzo(a)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	<0.005	<0.005	0.01 µg/L
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
PAH - Total	<0.005	<0.005	
PAH - Total	<0.005	<0.005	
Phenanthrene	<0.02	<0.02	
Phenanthrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	



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**Organic Compound**

Volatile Organic Compounds GCMS	Blank µg/L	Test µg/L	Max Allowed
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1-Dichloropropene	<1	<1	
1 1-Dichloropropene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloropropane	<1	<1	
1 2-Dichloropropane	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichloropropane	<1	<1	
1 3-Dichloropropane	<1	<1	
1 4-Dichlorobenzene	<1	<1	40 µg/L
1 4-Dichlorobenzene	<1	<1	40 µg/L
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethene	<1	<1	30 µg/L
1,1-Dichloroethene	<1	<1	30 µg/L
2,2-Dichloropropane	<1	<1	
2,2-Dichloropropane	<1	<1	
2-Chlorotoluene	<1	<1	
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	



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**Organic Compound**

<b>Volatile Organic Compounds GCMS</b>	<b>Blank µg/L</b>	<b>Test µg/L</b>	<b>Max Allowed</b>
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
Benzene	<1	<1	1 µg/L
Benzene	<1	<1	1 µg/L
Bromobenzene	<1	<1	
Bromobenzene	<1	<1	
Bromochloromethane	<1	<1	
Bromochloromethane	<1	<1	
Bromodichloromethane	26	<1	60 µg/L
Bromodichloromethane	31	<1	60 µg/L
Bromoform	8	<1	100 µg/L
Bromoform	7	<1	100 µg/L
Bromomethane	<4	<4	
Bromomethane	<4	<4	
Carbon tetrachloride	<1	<1	3 µg/L
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	
Chloroethane	<4	<4	
Chloroform	17	<1	400 µg/L
Chloroform	21	<1	400 µg/L
Chloromethane	<4	<4	
Chloromethane	<4	<4	
cis-1,3-Dichloropropene	<1	<1	
cis-1,3-Dichloropropene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
Dibromochloromethane	34	<1	150 µg/L
Dibromochloromethane	28	<1	150 µg/L
Dibromomethane	<1	<1	
Dibromomethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichloromethane	<4	<4	4 µg/L
Dichloromethane	<4	<4	4 µg/L
Ethylbenzene	<1	38	300 µg/L
Ethylbenzene	<1	38	300 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Isopropylbenzene	<1	<1	
Isopropylbenzene	<1	<1	
m+p-Xylenes - Total	<2	92	
m+p-Xylenes - Total	<2	92	



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**Organic Compound**

**Volatile Organic Compounds GCMS**

	Blank µg/L	Test µg/L	Max Allowed
Naphthalene	<1	<1	
Naphthalene	<1	<1	
n-Butylbenzene	<1	<1	
n-Butylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
o-Xylene	<1	87	
o-Xylene	<1	87	
sec-Butylbenzene	<1	<1	
sec-Butylbenzene	<1	<1	
Styrene	<1	<1	30 µg/L
Styrene	<1	<1	30 µg/L
tert-Butylbenzene	<1	<1	
tert-Butylbenzene	<1	<1	
Tetrachloroethene	<1	<1	50 µg/L
Tetrachloroethene	<1	<1	50 µg/L
Toluene	<1	<1	800 µg/L
Toluene	<1	<1	800 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Xylene	<3	179	600 µg/L
Total Xylene	<3	179	600 µg/L
trans-1 3-Dichloropropene	<1	<1	
trans-1 3-Dichloropropene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichlorofluoromethane	<1	<1	
Trichlorofluoromethane	<1	<1	
Trihalomethanes - Total	94	<4	250 µg/L
Trihalomethanes - Total	78	<4	250 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L



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**Evaluation** The product passed the requirements of clause 6.8 when tested at an exposure of 2500 mm<sup>2</sup> per Litre.

**Number of Samples** 1.

**Test Comment** Subcontracted testing conducted by ALS, Environmental Division, NATA accreditation no. 825 site no. 10911 and ALS Scoresby, NATA accreditation no. 992, site no. 989

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