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FINAL REPORT

Internet: www.awgc.com.au

Report ID: 320286

Report Information

Submitting Organisation: 00109358: Parchem Construction Supplies Pty Ltd

Account: 130335 : Parchem Construction Supplies Pty Ltd

AWQC Reference: 130335-2021-CSR-7: Fosroc Hydrocell

Project Reference: PT-4669

Product Designation: Fosroc Hydrocell (Grey)

Composition of Product : PE Foam (Grey).

Product Manufacturer: Gulf Rubber, Revesby, NSW, AUSTRALIA.

Use of Product: In-Line/Joint Filler into Concrete Joints.

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 C, D, E, F, H, 6.8.

Project Completion Date: 20-Sep-2021

Project Comment: Product sample was received on the 12-Jul-2021 and testing commenced 12-Jul-2021.

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

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Michael Glasson APPROVED SIGNATORY



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FINAL REPORT

Report ID: 320286

Summary of Results

APPENDIX/CLAUSE	RESULTS
C - Taste	Passed at an exposure of 15000 mm² per Litre.
D - Appearance	Passed at an exposure of 15000 mm² per Litre.
E — Growth of Aquatic Micro-organisms	Passed at an exposure of 15000 mm² per Litre.
F — Cytotoxic Activity	Passed at an exposure of 15000 mm² per Litre.
H – Metals	Passed at an exposure of 15000 mm² per Litre.
6.8 - Organic Compounds	Passed at an exposure of 15000 mm² per Litre.

Test Methods

Test(s) in Appendix	AWQC Test Method	Reference Method
С	T0320-01	AS/NZS 4020:2018
D	TO029-01 & TO018-01	APHA 2120c & APHA 2130b
Е	TO014-03	APHA 4500 O G
F	TM-001	AS/NZS 4020:2018
Н	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 : Not applicable.





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FINAL REPORT

Report ID: 320286

CLAUSE 6.2 Taste

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 60mm x 80mm

and 20mm thickness providing a total surface area of approximately 15000 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 15000 mm

² per Litre.

Number of Samples 2.

Test Comment The 24 hour extracts were not analysed in this test.

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Peter Christopoulos
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FINAL REPORT

Report ID: 320286

CLAUSE 6.3 Appearance

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 60mm x 80mm

and 20mm thickness providing a total surface area of approximately 15000 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

	Test (- Blank)	Maximum Allowed	<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 15000 mm

² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Andrew Paul Ford

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FINAL REPORT

Report ID: 320286

CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 50mm x 60mm

and 20mm thickness providing a total surface area of approximately 15000 mm² per Litre.

Extracts were prepared using 670mL volumes of test water.

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

Inoculum The volume of the inoculum was 67 mL

Scaling Factor Not applied.

Results

Mean Dissolved Oxygen Control 7.4 mg/L

Mean Dissolved Oxygen Difference Positive Reference 5.4 mg/L

Negative Reference 0.1 mg/L

Test 0.20 mg/L

Evaluation The product passed the requirements of clause 6.4 when tested at an exposure of 15000 mm

² per Litre.

Number of Samples 1.

Test Comment Not applicable.

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FINAL REPORT

Report ID: 320286

CLAUSE 6.5 Cytotoxic Activity

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 60mm x 80mm

and 20mm thickness providing a total surface area of approximately 15000 mm² per Litre.

Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

Test Method Cytotoxic Activity (Appendix F)

Scaling Factor Not applied.

Results Not detected (sample and controls).

Evaluation The product passed the requirements of clause 6.5 when tested at an exposure of 15000 mm

² per Litre.

Number of Samples 1.

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.



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FINAL REPORT

Internet: www.awgc.com.au

Report ID: 320286

CLAUSE 6.7

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 60mm x 80mm

and 20mm thickness providing a total surface area of approximately 15000 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 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:

Metals

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	<0.001	0.003	0.004	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	<0.0005	< 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	<0.0001	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	0.0001	<0.0001	<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 15000 mm

² per Litre.

Number of Samples 1.

Test Comment Not applicable.

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320286 Report ID:

Organic Compounds CLAUSE 6.8

Sample Description The sample consisted of a panel derived from foam sheet with dimensions 60mm x 80mm and

20mm thickness providing a total surface area of approximately 15000 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). 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.

Not applied. **Scaling Factor**

Results

Organic Compound

Nitrosamines	Blank	Test	Max Allowed
	μg/L	μg/L	
!External Lab Report No.	ES2127025	ES2127025	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
Nitrosomorpholine (NMor)	<0.003	< 0.003	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	

Organic Compound

Blank	Test	Max Allowed
μg/L	μg/L	
ES2127025	ES2127025	
<1.0	<1.0	
<1.0	<1.0	20 μg/L
<1.0	<1.0	200 μg/L
<1.0	<1.0	
<1.0	<1.0	
<1.0	<1.0	300 μg/L
<1.0	<1.0	
<1.0	<1.0	
<2.0	<2.0	
<1.0	<1.0	
<2.0	<2.0	9 μg/L
<1.0	<1.0	
	μg/L ES2127025 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	μg/L ES2127025 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.







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FINAL REPORT

Report ID: 320286

Organic	Compound	t
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Phthalate Esters	Blank	Test	Max Allowed
	μg/L	μg/L	
!External Lab Report No.	ES2127025	ES2127025	
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	

C

Organic Compound			
Polycyclic Aromatic Hydrocarbons	Blank	Test	Max Allowed
	μg/L	μg/L	
!External Lab Report No.	ES2127025	ES2127025	
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	









FINAL REPORT

Internet: www.awgc.com.au

Report ID: 320286

Organic Com	pound	d
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Volatile Organic Compounds GCMS	Blank	Test	Max Allowed
Volatile Organic Compounds Gewis			Max Allowed
	μg/L	μg/L	
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	5 F.S. =
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	40 μg/L
	<1	<1	20 ug/l
1,1-Dichloroethene	<1	<1	30 μg/L
2,2-Dichloropropane			
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	4 //
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	F-3' =
m+p-Xylenes - Total	<2	<2	
75,101100 10001	_	-	



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FINAL REPORT

320286 Report ID:

Organic Compound

Volatile Organic Compounds GCMS	Blank µg/L	Test μg/L	Max Allowed
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 product passed the requirements of clause 6.8 when tested at an exposure of 15000 mm²

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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SAW_PT_Final_2018.RPT Page 11 of 11