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Parchem Construction Supplies Pty Ltd
Attn: Phil Jones
1956 Dandenong Rd
Clayton
VIC 3168
AUSTRALIA

25/06/2026

Dear Phil,

Please find the attached report to AS/NZS 4020:2018 (Incorporating Amendment No.1) for Fosroc Renderoc G submitted for testing.

Should you have any enquiries about the report or any other matters pertaining to the Standard please contact the laboratory on 61 8 7424 1512

Yours sincerely,

M Glasson.

Michael Glasson
Supervisor Product Testing

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FINAL REPORT

Report ID : 424681

Report Information

Submitting Organisation :	00109358 : Parchem Construction Supplies Pty Ltd
Account :	130335 : Parchem Construction Supplies Pty Ltd
AWQC Reference :	130335-2025-CSR-6 : Prod Test: Fosroc Renderoc G
Project Reference :	PT-6076
Product Designation :	Fosroc Renderoc G
Composition of Product :	Geopolymer Cement Mortar Based on Waster Materials: Fumed Silca, Blast Furnace Slag & Fly Ash.
Product Manufacturer :	Parchem Construction Supplies, Wyong, NSW, AUSTRALIA.
Use of Product :	In-Line/Cement Based Concrete Repair Mortar (Patch Repair).
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 :	24-Jun-2026
Project Comment :	Product sample received in the week 06-Jan-2026, testing commenced 03-Feb-2026.

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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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.
G – Mutagenic 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	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
	TMZ-M07	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

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Laboratory Information

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

Summary Comment : Compound was applied (to glass slides) at a ratio of 3.2 Litres of water to 20kg of Renderoc G. Twelve sequential soakings performed to obtain a pH < 9.0. In accordance with section A8 (Cementitious Products).

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CLAUSE 6.2 Taste

Sample Description	The sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).
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 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	Not applicable.

Peter Christopoulos
APPROVED SIGNATORY

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CLAUSE 6.3 Appearance

Sample Description The sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).

Extraction Temperature 20°C ± 2°C.

Test Method Appearance (Appendix D)

Scaling Factor Not applicable.

Results

	Test (- Blank)	Maximum Allowed	Units
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 Ford
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CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description

The sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. 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	7.5	mg/L
Mean Dissolved Oxygen Difference	Positive Reference	3.8	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

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 two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).

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	Cytotoxic response, unhealthy cell morphology with >50% cell death
	Non-cytotoxic response, healthy cell morphology with <30% cell death
	Non-cytotoxic response, healthy cell morphology with <30% cell death
	Cytotoxic response, unhealthy cell morphology with >50% cell death
	Non-cytotoxic response, healthy cell morphology with <30% cell death
	Non-cytotoxic response, healthy cell morphology with <30% cell death
	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 15000 mm ² 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 sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).

Extraction Temperature 20°C ± 2°C.

Test Method Mutagenic Activity (Appendix G)

Scaling Factor Not applicable.

Results

Bacteria Strain	S9	Blank	Sample Extract	Positive Controls	Number of Revertants per Plate
Salmonella typhimurium TA98	-	31, 32, 34	11, 13, 19	2578, 2781, 2608	NPD (20µg)
Mean ± Standard deviation		32.3 ± 1.5	14.3 ± 4.2	2655.7 ± 109.6	
	+	32, 37, 29	16, 12, 13	2849, 2998, 2979	2-AF (20µg)
Mean ± Standard deviation		32.7 ± 4.0	13.7 ± 2.1	2942.0 ± 81.1	
Salmonella typhimurium TA102	-	412, 396, 379	430, 487, 471	3109, 2619, 3201	Mitomycin C(10µg)
Mean ± Standard deviation		395.7 ± 16.5	462.7 ± 29.4	2976.3 ± 312.9	
	+	418, 426, 383	412, 415, 424	1997, 3014, 2754	
Mean ± Standard deviation		409.0 ± 22.9	417.0 ± 6.2	2588.3 ± 528.4	

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 15000 mm ² 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 sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).

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	0.031	0.043	0.045	0.2
Antimony	0.0003	<0.0003	<0.0003	<0.0003	0.003
Arsenic	0.00006	0.00029	0.00031	0.00032	0.01
Barium	0.0003	0.0357	0.0368	0.0362	0.7
Boron	0.020	0.046	0.026	<0.020	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	0.3020	0.2658	0.2588	2.0
Iron	0.0005	0.0044	0.0048	0.0054	0.3
Lead	0.0001	0.0006	0.0009	0.0008	0.01
Manganese	0.0001	0.0005	0.0006	0.0006	0.1
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	0.0004	0.0003	0.0003	0.05
Nickel	0.0002	0.0013	0.0013	0.0013	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 42000 mm ² per Litre.

Number of Samples
1.

Test Comment
Not applicable.

Dzung Bui
APPROVED SIGNATORY

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FINAL REPORT

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CLAUSE 6.8 Organic Compounds

Sample Description The sample consisted of two coated panels (each coated to one side) with dimensions 75 mm x 100 mm and providing a total surface area of approximately 15000 mm²/L. Extracts were prepared using 1000 mL volumes of pre-conditoning water(AI 12.6).

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 NDMA	Blank ng/L	Test ng/L	Max Allowed
NDMA	<20	<20	30 ng/L

Organic Compound Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2604983	ES2604983	
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.	ES2604983	ES2604983	
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.	ES2604983	ES2604983	
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 **Volatile Organic Compounds GCMS**	Blank µg/L	Test µg/L	Max Allowed
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	32	27	60 µg/L
Bromoform	12	11	100 µg/L
Bromomethane	<4	<4	
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	
Chloroform	19	17	400 µg/L
Chloromethane	<4	<4	
cis-1 3-Dichloropropene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
Dibromochloromethane	39	33	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 **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	102	88	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 Not applicable.

Rashed Hoque

APPROVED SIGNATORY

NATA
WORLD RECOGNISED ACCREDITATION

Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
with ISO/IEC 17025 - Testing

ilac-MRA

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/about-us/quality-management >