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FINAL REPORT

Report ID : 319383

Report Information

Submitting Organisation :	00109358 : Parchem Construction Supplies Pty Ltd
Account :	130335 : Parchem Construction Supplies Pty Ltd
AWQC Reference :	130335-2021-CSR-5 : Prod Test: Fosroc Nitomortar 903
Project Reference :	PT-4645
Product Designation :	Fosroc Nitomortar 903 Epoxy Primer/Binder
Composition of Product :	Two-Component, Low Viscosity Epoxy Resin System.
Product Manufacturer :	Parchem Construction Supplies Pty Ltd., Lucca Rd, Wyong, NSW, AUSTRALIA.
Use of Product :	In-Line/Primer for Concrete and Binder for Epoxy Mortars.
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 :	06-Sep-2021
Project Comment :	Product sample received on the 01-Jun-2021, testing commenced 08-Jun-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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Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed at an exposure of 15000 mm ² per Litre.
D – Appearance	Passed at an exposure of 15000 mm ² per Litre.
E – Growth of Aquatic Micro-organisms	Passed at an exposure of 15000 mm ² per Litre.
F – Cytotoxic Activity	Passed at an exposure of 15000 mm ² per Litre.
H – Metals	Passed at an exposure of 15000 mm ² per Litre.
6.8 – Organic Compounds	Passed at an exposure of 15000 mm ² 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
E	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 :

Two-componenet epoxy resin was applied with a 2:1 (Base:Hardener) ratio by volume and cured for 7 days at 20°C prior to the commencement of testing.





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CLAUSE 6.2		Taste		
Sample Descript	tion		s slides each with a single side coated urface area of 15000 mm² per Litre. Ex /L hardness water.	•
Extraction Temp	erature	20°C ± 2°C.		
Test Method		Taste (Appendix C)		
Test Information				
Scaling Factor		Not applied.		
Results		Not detected (sample and control	s).	
Evaluation		The product passed the requirem ² per Litre.	ents of clause 6.2 when tested at an e	xposure of 15000 mm
Number of Samp	oles	2.		
Test Comment		The 24 hour extracts were not an	alysed in this test.	

Jack

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CLAUSE 6.3		Appearance			
Sample Descript	tion		oximate surface area	ach with a single side coated n a of 15000 mm² per Litre. Extra ss water.	
Extraction Temp	erature	20°C ± 2°C.			
Test Method		Appearance (Appendix	D)		
Scaling Factor		Not applied.			
Results					
			<u>Test (- Blank)</u>	Maximum Allowed	<u>Units</u>
		Colour	<1	5	HU
		Turbidity	<0.1	0.5	NTU
Evaluation		The product passed the ² per Litre.	e requirements of cla	use 6.3 when tested at an exp	osure of 15000 mm
Number of Samp	oles	1.			
Test Comment		Not applicable.			

Andrew Paul Ford

Andrew Ford APPROVED SIGNATORY





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CLAUSE 6.4		Growth of Aquatic Micro-	-organi	sms	
Sample Descrip	tion	· · ·	surface	es each with a single side coated r area of 15000 mm² per Litre. Extr	-
Test Method		Growth of Aquatic Micro-organi	sms (Ap	pendix E)	
Inoculum		The volume of the inoculum wa	is 100 m	L	
Scaling Factor		Not applied.			
Results		Mean Dissolved Oxygen		Control	7.6 mg/L
		Mean Dissolved Oxygen Differe	ence	Positive Reference	5.3 mg/L
				Negative Reference	<0.1 mg/L
				Test	2.20 mg/L
Evaluation		The product passed the require ² per Litre.	ements o	f clause 6.4 when tested at an exp	oosure of 15000 mm
Number of Sam	ples	1.			
Test Comment		Not applicable.			

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FINAL REPORT				AVVQC
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CLAUSE 6.5		Cytotoxic Activity		
Sample Descript	tion		ss slides each with a single side coated r urface area of 15000 mm² per Litre. Extra g/L hardness water.	
Extraction Temp	erature	20°C ± 2°C.		
Test Method		Cytotoxic Activity (Appendix F)		
Scaling Factor		Not applied.		
Results		Non-Cytotoxic (sample and contr	ols).	
Evaluation		The product passed the requirem ² per Litre.	nents of clause 6.5 when tested at an exp	oosure of 15000 mm
Number of Sam	oles	1.		
Test Comment		subsequently used to grow a cell	icts were used to prepare nutrient growth I line (ATCC Number CCL 81) in the anal ed for the positive control in the analysis.	lysis. In addition

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Max Allowed

mg/L

0.2

0.003

0.01

0.7

1.4

0.002

0.05

2.0

0.3

0.01

0.1

0.001

0.05

0.02

0.01

0.1

Report ID : 319383 CLAUSE 6.7 Metals **Sample Description** The sample consisted of two glass slides each with a single side coated measuring 75 mm x 100 mm giving an approximate surface area of 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) Not applied. **Scaling Factor** All methods used to determine concentrations of metals are based on those described in Method of Analysis 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. Limit of Reporting Test 2 Results Blank Test 1 mg/L mg/L mg/L mg/L **Final Extract** 0.001 < 0.001 0.005 0.006 Aluminium 0.0005 < 0.0005 < 0.0005 < 0.0005 Antimony 0.0003 < 0.0003 < 0.0003 < 0.0003 Arsenic Barium 0.0005 < 0.0005 < 0.0005 < 0.0005 0.020 < 0.020 < 0.020 < 0.020 Boron 0.0001 < 0.0001 < 0.0001 < 0.0001 Cadmium < 0.0001 0.0001 < 0.0001 0.0002 Chromium Copper 0.0001 < 0.0001 < 0.0001 < 0.0001 Iron 0.0005 < 0.0005 < 0.0005 0.0007 Lead 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 Manganese 0.0001 < 0.0001 < 0.00003 < 0.00003 0.00003 0.00003 Mercury Molybdenum 0.0001 < 0.0001 < 0.0001 0.0002 Nickel 0.0001 < 0.0001 < 0.0001 < 0.0001 Selenium 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.00003 Silver 0.00003 < 0.00003 < 0.00003 Evaluation The product passed the requirements of clause 6.7 when tested at an exposure of 15000 mm ² per Litre.

Number of Samples

Test Comment

Not applicable.

1.

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FINAL REPORT	•				AVQC
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CLAUSE 6.8		Organic Comp	ounds		
Sample Descrip	otion	100 mm giving an a	-	h with a single side coated meas of 15000 mm² per Litre. Extracts water.	-
Extraction Tem	peratur	e 20°C ± 2°C.			
Test Method		-	d Drinking-water Standar	ed values are taken from the Aus ds for New Zealand. Please note	-
Scaling Factor		Not applied.			
Results					
Organic Compo Nitrosamines	ound		Blank μg/L	Test μg/L	Max Allowed
!External Lab 1-Nitrosopipe 1-Nitrosopyrr Nitrosomorph	ridine (N olidine (N oline (N	lPip) NPyr) Mor)	ES2122722 <0.003 <0.01 <0.003	ES2122722 <0.003 <0.01 <0.003	
	ethylami -propyla	. ,	<0.01 <0.003 <0.003 <0.003	<0.01 <0.003 <0.003 <0.003	0.1 μg/L
Organic Compo Phenols			Blank μg/L	Test μg/L	Max Allowed
!External Lab 2 4 5-trichloro 2 4 6-trichloro 2 4-dichloropl 2 4-dimethylp	ophenol ophenol henol henol	No.	ES2122722 <1.0 <1.0 <1.0 <1.0	ES2122722 <1.0 <1.0 <1.0 <1.0	20 μg/L 200 μg/L
2 6-dichloropl 2-chlorophenol 2-nitrophenol 4-chloro-3-me m+p cresol	ol	nol	<1.0 <1.0 <1.0 <1.0 <2.0 <1.0	<1.0 <1.0 <1.0 <1.0 <2.0 <1.0	300 µg/L
o-cresol pentachloropl phenol	henol		<1.0 <2.0 <1.0	<1.0 <2.0 <1.0	9 µg/L





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Organic Compound			
Phthalate Esters	Blank	Test	Max Allowed
	µg/L	µg/L	
!External Lab Report No.	ES2122722	ES2122722	
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	
Organic Compound			
Polycyclic Aromatic Hydrocarbons	Blank	Test	Max Allowed
	μg/L	μg/L	
!External Lab Report No.	ES2122722	ES2122722	
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

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Organic Compound			
Volatile Organic Compounds GCMS	Blank	Test	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	
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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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

Qiong Huang

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