

Internet: www.awqc.com.au

Email: producttesting@awqc.com.au

Chesterton Customseal Attn: Jorge Mellado 95 Excellence Drive Wangara WA 6065 AUSTRALIA

14/05/2024

Dear Jorge,

Please find the attached report to AS/NZS 4020:2018 (Incorporating Amendment No.1) for S1PW Two Colour Epoxy (Light Blue) 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,

Peter Christopoulos

Senior Technical Officer Product Testing





250 Victoria Square Adelaide SA 5000 Tel: 1300 653 366 Fax: 1300 883 171

Email: producttesting@awqc.com.au



Internet: www.awgc.com.au

FINAL REPORT

Report ID:

382947

Report Information

Submitting Organisation:

00100964: Chesterton Customseal

Account:

144549: Chesterton Customseal

AWQC Reference:

144549-2023-CSR-3: Prod Test: Blue Coating System

Project Reference:

PT-5458

Product Designation :

S1PW Two Colour Epoxy (Light Blue)

Composition of Product:

100% Solids (no other information disclosed by submitting organisation).

Product Manufacturer:

AW Chesterton, Groveland, MA, USA.

Use of Product:

In-Line/Epoxy Ceramic Coating System for coating of Pump, Valves, Tanks & Pipes.

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, H, 6.8.

Project Completion Date:

14-May-2024

Project Comment:

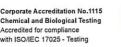
Samples received 25-Sep-2023, testing commenced 19-Feb-2024. Coating system

applied and cured by the submitting organisation prior to submission.

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 40,000 mm² per Litre.
D - Appearance	Passed at an exposure of 40,000 mm² per Litre.
E - Growth of Aquatic Micro-organisms	Passed at an exposure of 15,000 mm² per Litre.
F — Cytotoxic Activity	Passed at an exposure of 40,000 mm² per Litre.
H - Metals	Passed at an exposure of 40,000 mm² per Litre.
6.8 - Organic Compounds	Passed at an exposure of 40,000 mm² per Litre.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
С	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
Н	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Υ
	EP075C	Y
	EP075ASIM	Υ





1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval

confidence interval

2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <a href="https://www.awgc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-testing-analysis/measurement-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncertainty-uncerta

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FINAL REPORT

Report ID:

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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 : Not applicable.		

Summary Comment :

Not applicable.





confidence interval

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FINAL REPORT

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CLAUSE 6.2

Taste

Sample Description

The sample consisted of four panels (with target coating to one side) with dimensions 75 mm x 100 mm providing a total surface area of approximately 40,000 mm² per Litre. Extracts

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were prepared using 750 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.

Evaluation

The product passed the requirements of clause 6.2 when tested at an exposure of 40,000

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 sample consisted of four panels (with target coating to one side) with dimensions 75 mm \times 100 mm providing a total surface area of approximately 40,000 mm² per Litre. Extracts were prepared using 750 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 40,000

mm² per Litre.

Number of Samples

1.

Test Comment

Not applicable.

Andrew Ford APPROVED SIGNATORY



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FINAL REPORT

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CLAUSE 6.4

Growth of Aquatic Micro-organisms

Sample Description

The sample consisted of two panels (with target coating to one side) with dimensions 75 mm x 100 mm providing a total surface area of approximately 15,000 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

7.4 mg/L

Mean Dissolved Oxygen Difference

Positive Reference

4.3 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 15,000

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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FINAL REPORT

Report ID:

382947

CLAUSE 6.5

Cytotoxic Activity

Sample Description

The sample consisted of four panels (with target coating to one side) with dimensions 75 mm x 100 mm providing a total surface area of approximately 40,000 mm² per Litre. Extracts were prepared using 750 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 40,000

mm² per Litre.

Number of Samples

1.

Test Comment

Not applicable.

Mira Maric APPROVED SIGNATORY



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FINAL REPORT

Report ID: 382947

CLAUSE 6.7 Metals

Sample Description The sample consisted of four panels (with target coating to one side) with dimensions 75 mm

x 100 mm providing a total surface area of approximately 40,000 mm² per Litre. Extracts

were prepared using 750 mL volumes of 50 mg/L hardness water. $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

Extraction Temperature

Test Method Metals (Appendix H)

Not applied. **Scaling Factor**

Concentration of the metals described in Table 2 of the AS/NZS 4020:2018 are determined **Method of Analysis**

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	0.007	0.011	0.009	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	0.0004	0.0005	0.0005	0.7
Boron	0.020	0.020	0.042	0.035	1.4
Cadmium	0.0001	<0.0001	< 0.0001	<0.0001	0.002
Chromium	0.0001	0.0002	0.0002	0.0003	0.05
Copper	0.0001	0.0003	0.0002	0.0002	2.0
Iron	0.0005	0.0008	0.0010	<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	0.0007	<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

The product passed the requirements of clause 6.7 when tested at an exposure of 40,000 **Evaluation**

mm² per Litre.

Number of Samples 1.

Test Comment Not applicable.

Dzung Bui APPROVED SIGNATORY



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FINAL REPORT

382947 Report ID:

CLAUSE 6.8 Organic Compounds

The sample consisted of four panels (with target coating to one side) with dimensions 75 mm x Sample Description

100 mm providing a total surface area of approximately 40,000 mm² per Litre. Extracts were

prepared using 750 mL volumes of 50 mg/L hardness water.

20°C ± 2°C. **Extraction Temperature**

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.	ES2406905	ES2406905	
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L

Organic Compound

Phenols	Blank	Test	Max Allowed
	µg/L	μg/L	
!External Lab Report No.	ES2406905	ES2406905	
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	Test	Max Allowed
	μg/L	μg/L	
!External Lab Report No.	ES2406905	ES2406905	
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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FINAL REPORT

Report ID:	382947

Organic Compound			
Polycyclic Aromatic Hydrocarbons	Blank	Test	Max Allowed
	μg/L	μg/L	
External Lab Report No.	ES2406905	ES2406905	
Acenaphthene	<0.02	<0.02	ž.
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	





confidence interval

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Report ID: 382947

Organic	Compound
Organic	Compound

Organic Compound		- .	
Volatile Organic Compounds GC		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	- 1-9 -
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	1.3
1,1-Dichloroethene	<1	<1	30 µg/L
2,2-Dichloropropane	<1	<1	2.5 1.3
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
Benzene	<1	<1	1 μg/L
Bromobenzene	<1	<1	. 5
Bromochloromethane	<1	<1	
Bromodichloromethane	<1	<1	60 μg/L
Bromoform	<1	<1	100 µg/L
Bromomethane	<4	<4	, 5
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	, 5
Chloroform	1	1	400 µg/L
Chloromethane	<4	<4	, 0
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	appropriate to \$1000 delication
m+p-Xylenes - Total	<2	<2	
m-p-xylonos - rotal		~ -	



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FINAL REPORT

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Organic Compound

Organic Compound			
Volatile Organic Compounds GCMS	Blank	Test	Max Allowed
	μg/L	μg/L	
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 40,000 mm²

per Litre.

1. **Number of Samples**

Not applicable. **Test Comment**

Rashed Hoque

APPROVED SIGNATORY



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REPORT ATTACHMENT 1.

REPORT ID 382947

PROJECT REFERENCE PT-5458

DATE 14-05-2024

