



Ardex New Zealand Limited  
Attn: Vijay Nair  
32 Lane Street  
Woolston, Christchurch

NEW\_ZEALAND

05/10/2022

Dear Vijay,

Please find the attached report to AS/NZS 4020:2018 for WPM715 G (Grey) 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,

Michael Glasson  
Supervisor Product Testing



Internet: [www.awqc.com.au](http://www.awqc.com.au)

Email: [producttesting@awqc.com.au](mailto:producttesting@awqc.com.au)

## FINAL REPORT

Report ID : 347630

### Report Information

**Submitting Organisation :** 0012083 : Ardex New Zealand Limited  
**Account :** 141947 : Ardex New Zealand Limited  
**AWQC Reference :** 141947-2022-CSR-1 : Prod Test: Membrane 1  
**Project Reference :** PT-4984  
**Product Designation :** WPM715 G (Grey)  
**Composition of Product :** Weldtec Butyl Membrane (Grey and Black).  
**Product Manufacturer :** Ardex NZ Ltd., Woolston, Christchurch, NEW ZEALAND.  
**Use of Product :** In-Line/Waterproofing Membrane for Roof Top.  
**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  
**Extracts :** Extracts were prepared as described in Appendix/Clause C, D, E, F, H, 6.8.  
**Project Completion Date :** 05-Oct-2022  
**Project Comment :** Samples received on the 27-Jun-2022, testing commenced 08-Jul-2022.

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 AS/NZS 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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#### Notes

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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/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>



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**Summary of Results**

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed at an exposure of 9750 mm <sup>2</sup> /L (each side of material ).
D – Appearance	Passed at an exposure of 15000 mm <sup>2</sup> /L (each side of material).
E – Growth of Aquatic Micro-organisms	Passed at an exposure of 9750 mm <sup>2</sup> /L (each side of material ) with a 0.65 scaling factor applied.
F – Cytotoxic Activity	Passed at an exposure of 15000 mm <sup>2</sup> /L (each side of material).
H – Metals	Passed at an exposure of 15000 mm <sup>2</sup> /L (each side of material).
6.8 – Organic Compounds	Passed at an exposure of 15000 mm <sup>2</sup> /L (each side of material).

**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
H	TIC-006	Y

**Organic Test Methods**

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



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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.



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### CLAUSE 6.2 Taste

#### Sample Description

The sample consisted of one panel measuring 75 mm x 100 mm giving an approximate surface area of 9750 mm<sup>2</sup> per Litre (each side of the material - grey and black). Extracts were prepared using 770 mL volumes of 50 mg/L hardness water.

#### 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 9750 mm<sup>2</sup> per Litre (per side).

#### Number of Samples

2.

#### Test Comment

Not applicable.

Michael Glasson

APPROVED SIGNATORY



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### CLAUSE 6.3 Appearance

**Sample Description** The sample consisted of two panels measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm<sup>2</sup> per Litre (each side of the material - grey and black). 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 applicable.

### Results

	<u>Test (- Blank)</u>	<u>Maximum Allowed</u>	<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<sup>2</sup> per Litre(per side).

**Number of Samples** 1.

**Test Comment** Not applicable.

Andrew Ford  
APPROVED SIGNATORY



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### CLAUSE 6.4 Growth of Aquatic Micro-organisms

**Sample Description** The sample consisted of two panels measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm<sup>2</sup> per Litre (each side of the material - grey and black). 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** A scaling factor of 0.65 was applied.

#### Results

Mean Dissolved Oxygen	Control	7.6 mg/L
Mean Dissolved Oxygen Difference	Positive Reference	5.6 mg/L
	Negative Reference	0.1 mg/L
	Test	2.40 mg/L

**Evaluation** The product passed the requirements of Clause 6.4 when tested at an exposure of 9750 mm<sup>2</sup> per Litre (per side) with a 0.65 scaling factor applied.

**Number of Samples** 1.

**Test Comment** The Mean Dissolved Oxygen Difference in the extracts exceeded the maximum allowable concentration. A scaling factor of 0.65 was applied to meet the requirements of Clause 6.4.

Thuy Diep  
APPROVED SIGNATORY



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### CLAUSE 6.5 Cytotoxic Activity

**Sample Description** The sample consisted of two panels measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm<sup>2</sup> per Litre (each side of the material - grey and black). Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**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	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<sup>2</sup> per Litre (per side).

**Number of Samples** 1.

**Test Comment** Not applicable.

Mira Maric  
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**FINAL REPORT**

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**CLAUSE 6.7**

**Metals**

**Sample Description**

The sample consisted of two panels measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm<sup>2</sup> per Litre (each side of the material - grey and black). 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 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
<b>Final Extract</b>					
Aluminium	0.001	0.010	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	<0.0005	<0.0005	<0.0005	0.7
Boron	0.020	0.116	0.124	0.124	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	<0.0001	<0.0001	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<sup>2</sup> per Litre (per side).

**Number of Samples**

1.

**Test Comment**

Not applicable.

Dzung Bui

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**CLAUSE 6.8 Organic Compounds**

**Sample Description** The sample consisted of two panels measuring 75 mm x 100 mm giving an approximate surface area of 15000 mm<sup>2</sup> per Litre (each side of the material - grey and black). 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). 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**

<b>Nitrosamines</b>	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2225869	ES2225869	
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	0.008	0.1 µg/L
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	

**Organic Compound**

<b>Phenols</b>	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2225869	ES2225869	
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	

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**Organic Compound**

Phthalate Esters	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2225869	ES2225869	
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 µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2225869	ES2225869	
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	<0.006	<0.006	
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	<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	2	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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### 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 mm<sup>2</sup> per Litre (per side).

**Number of Samples** 1.

**Test Comment** Not applicable.

Qiong Huang

APPROVED SIGNATORY



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