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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 HB70 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

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FINAL REPORT

**Report ID :** 424686

## Report Information

| | |
|---|---|
| **Submitting Organisation :** | 00109358 : Parchem Construction Supplies Pty Ltd |
| **Account :** | 130335 : Parchem Construction Supplies Pty Ltd |
| **AWQC Reference :** | 130335-2025-CSR-4 : Prod Test: Fosroc Renderoc HB70 |
| **Project Reference :** | PT-6075 |
| **Product Designation :** | Fosroc Renderoc HB70 |
| **Composition of Product :** | Cement, Silica Sands + Additives. |
| **Product Manufacturer :** | Parchem Construction Supplies, Wyong, NSW, AUSTRALIA. |
| **Use of Product :** | In-Line/Cement Based Concrete Repair Mortar. |
| **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 |
| Analytical Quality Control | |
| 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 :** The compound was applied (to glass slides) and cured for 7 days at 20°C prior to testing (ratio of 200g to 29mL of drinking water). Nineteen 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
APPROVED SIGNATORY

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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 | 0.10 | 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 | Borderline cytotoxic response, irregular cell morphology with 31-49% cell death |
| 48 HR | Cytotoxic response, unhealthy cell morphology with >50% 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 |
| | 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 | 5, 9, 6 | 2578, 2781, 2608 | NPD (20µg) |
| Mean ± Standard deviation | | 32.3 ± 1.5 | 6.7 ± 2.1 | 2655.7 ± 109.6 | |
| | + | 32, 37, 29 | 4, 7, 4 | 2849, 2998, 2979 | 2-AF (20µg) |
| Mean ± Standard deviation | | 32.7 ± 4.0 | 5.0 ± 1.7 | 2942.0 ± 81.1 | |
| *Salmonella typhimurium* TA102 | - | 412, 396, 379 | 455, 447, 397 | 3109, 2619, 3201 | Mitomycin C(10µg) |
| Mean ± Standard deviation | | 395.7 ± 16.5 | 433.0 ± 31.4 | 2976.3 ± 312.9 | |
| | + | 418, 426, 383 | 411, 301, 382 | 1997, 3014, 2754 | |
| Mean ± Standard deviation | | 409.0 ± 22.9 | 364.7 ± 57.0 | 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.

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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 | 0.038 | 0.040 | 0.2 |
| Antimony | 0.0003 | <0.0003 | <0.0003 | <0.0003 | 0.003 |
| Arsenic | 0.00006 | 0.00029 | 0.00030 | 0.00031 | 0.01 |
| Barium | 0.0003 | 0.0357 | 0.0335 | 0.0375 | 0.7 |
| Boron | 0.020 | 0.046 | <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 | 0.3020 | 0.2683 | 0.2802 | 2.0 |
| Iron | 0.0005 | 0.0044 | 0.0044 | 0.0050 | 0.3 |
| Lead | 0.0001 | 0.0006 | 0.0009 | 0.0010 | 0.01 |
| Manganese | 0.0001 | 0.0005 | 0.0004 | 0.0007 | 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 | 0.0012 | 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 mm² per Litre.

**Number of Samples** 1.

**Test Comment** Not applicable.

Dzung Bui
APPROVED SIGNATORY

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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**<br>**Polycyclic Aromatic Hydrocarbons** | Blank<br>µg/L | Test<br>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**<br>**Volatile Organic Compounds GCMS** | Blank<br>µg/L | Test<br>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 | 30 | 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 | 18 | 400 µg/L |
| Chloromethane | <4 | <4 | |
| cis-1 3-Dichloropropene | <1 | <1 | |
| cis-1,2-Dichloroethene | <1 | <1 | |
| Dibromochloromethane | 39 | 36 | 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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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 >

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AWQC

**FINAL REPORT**

**Report ID :** 424686

| **Organic Compound**<br>**Volatile Organic Compounds GCMS** | Blank<br>µg/L | Test<br>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 | 95 | 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

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