



# TEST REPORT

## DC20899-01-1

**REPORT ON MATERIALS TESTING FOSROC SA80 TAPE TO AS/NZS 4858:2004**

### CLIENT

Parchem Construction Supplies Pty Ltd,  
7 Lucca Road,  
Wyong,  
NSW, 2259  
Australia



All tests and procedures reported herein, unless indicated, have been performed in accordance with the laboratory's scope of accreditation



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## LIMITATION

The results reported here relate only to the item/s tested.

## TERMS AND CONDITIONS

This report is issued in accordance with the Terms and Conditions as detailed and agreed in the BRANZ Services Agreement for this work.

## SCOPE OF LABORATORY ACCREDITATION

This section will contain details on the approach report signatories have taken to clearly present 'out of scope' test and procedure information within this report – if any.



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## DOCUMENT REVISION STATUS

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# 1. SCOPE

Testing of supplied waterproofing membrane to the requirements of **AS/NZS 4858:2004 Wet area membranes**.

| Test schedule as determined by AS/NZS 4858:2004 |  |
|---|--|
| Membrane property requirement                   | Test method  |
| Moisture vapour transmission rate               | ASTM E96   |
| Water absorption                                | AS 3558.1  |
| Acceptance of cyclic movement                   | AS/NZS 4858:2004 Appendix B, assessment of resistance of waterproofing membranes to cyclic movement. |
| Durability                                      | AS/NZS 4858:2004 Appendix A assessment of durability of waterproofing membranes                      |

# 2. PRODUCT

Product name: Fosroc SA80 Jointing Tape

Product type: Reinforcing tape to be used with liquid membrane.

The test specimens were received on 11/08/2025 and assigned the following BRANZ sample designations, 25/368.


Images of the supplied test materials are given in Figure 1.

The client supplied 2 rolls of the SA80 Jointing Tape.

The method of sample preparation and sampling was unknown.



Figure 1: As received test materials.

|   |                     |                        |                |
|---|---------------------|------------------------|----------------|
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### 3. SUMMARY

The membrane tested met the requirements of AS/NZS 4858:2004. The product classification is given below. The product classification and results summary are given below in Table 1 and 2.

**Table 1: Membrane classification.**

| Membrane Classification   |                               |  |
|---------------------------|-------------------------------|--|
| Class                     | Elongation at break AS 1145.3 | Reinforcement included as part of the system |
| II - Medium Extensibility | 60-299%                       | Yes*   |

\*This product provides reinforcing for a liquid membrane system.

**Table 2: AS/NZS 4858:2004 results summary.**

| TEST                              | Test result                |      | Conformance    |
|-----------------------------------|----------------------------|------|----------------|
| Moisture Vapour Transmission Rate | 0.22 g/m <sup>2</sup> /day |      | Recorded value |
| Water absorption (maximum)        | 2 %                        |      | Recorded value |
| Resistance to Cyclic Movement     | Class II                   |      | PASS           |
| Thickness                         | 0.81 mm                    |      | Recorded value |
| Durability                        |                            |      |                |
| Control (% elongation)            | Control                    | 78.2 | Recorded value |
| Deionised water (% elongation)    | 7 days                     | 78.9 | PASS           |
|                                   | 28 days                    | 70.0 |                |
|                                   | 56 days                    | 82.5 |                |
| Detergent (% elongation)          | 7 days                     | 76.9 | PASS           |
|                                   | 28 days                    | 76.7 |                |
|                                   | 56 days                    | 65.5 |                |
| Bleach (% elongation)             | 7 days                     | 75.1 | PASS           |
|                                   | 28 days                    | 85.8 |                |
|                                   | 56 days                    | 74.6 |                |
| Heat Ageing (% elongation)        | 7 days at 50°C             | 77.0 | PASS           |

All testing was completed between 13/08/2025 and 19/12/2025.



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## 4. RESULTS

### 4.1 Moisture vapour transmission rate

Testing was carried out in accordance with ASTM E96 desiccant method. Test results are given in Table 3.

#### Test deviations.

No deviations were recorded.

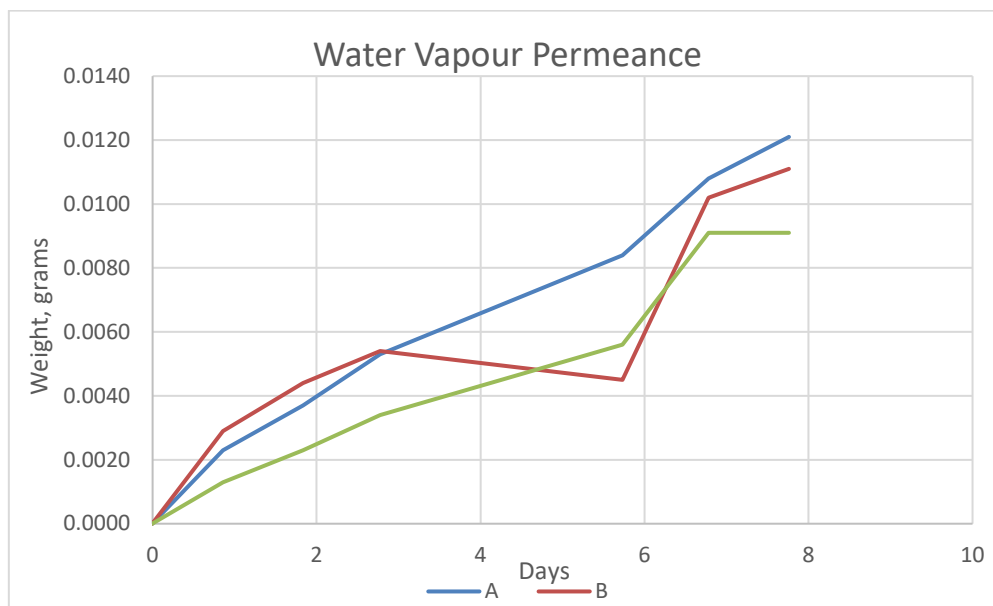
#### Test conditions

|                                 |               |
|---------------------------------|---------------|
| <b>Average temperature (°C)</b> | 23.3          |
| <b>Average humidity (%RH)</b>   | 49            |
| <b>Product type</b>             | Heterogeneous |
| <b>Cup type</b>                 | Dry           |
| <b>Sealant</b>                  | Paraffin      |

**Table 3: Moisture Vapour Transmission Results.**

| Sample  | Thickness, mm | WVTR (g/m <sup>2</sup> d) |
|---------|---------------|---------------------------|
| A       | 0.80          | 0.26                      |
| B       | 0.81          | 0.19                      |
| C       | 0.80          | 0.21                      |
| Average | 0.80          | 0.22                      |

The average vapour flow (WVTR) of the three samples is 0.22 g/m<sup>2</sup>/24 hours.



**Figure 2: Water vapour permeance plot**



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Due to the low or near zero WVTR, the resolution requirements of ASTM E96-22 section 6 cannot be met.

## 4.2 Resistance to Cyclic Movement

Testing carried out in accordance with AS/NZS 4858 Appendix B. Test results are given in Table 4.

### Test deviations.

No deviations were recorded.

### Test conditions

|                                    |         |
|------------------------------------|---------|
| <b>Material class</b>              | II      |
| <b>Cycle time</b>                  | 2 hours |
| <b>Cyclic extension (mm)</b>       | 0.78    |
| <b>Rate of extension (mm/min)</b>  | 0.013   |
| <b>Number of cycles completed:</b> | 50      |

**Table 4: Resistance to cyclic movement results**

| <b>Observation date</b> | <b>Cycle count</b> | <b>Daily observation and defects observed</b> |
|-------------------------|--------------------|---|
| 11/07/2025              | 0.5                | Test running correctly                        |
| 15/07/2026              | 50                 | No damage found at full extension             |

Acceptance criteria:

Any rupture causing a hole in the specimen or extending through the thickness of the specimen for more than 1 mm in from the specimen's edge, shall be considered a failure.

The tested membrane meets the requirements of the Resistance to Cyclic Movement test.

## 4.3 Water Absorption

Testing was carried out in accordance with AS 3558.1. With modifications as described in AS/NZS 4858. Test results are given in Table 5.

### Test deviations.

To account for the water held within the fleece backing, each sample was weighted before testing, immediately after testing, and after 24h drying at 50°C after testing. Water absorption was calculated by using Wet Weight after test and post-test dried weight.



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**Table 5: Water absorption test results**

| Sample  | Initial dry weight (g) | Wet weight (g) | Dry weight after 24h @ 50C | Water absorption (%) |
|---------|------------------------|----------------|----------------------------|----------------------|
| 1       | 2.350                  | 2.350          | 2.318                      | 1%                   |
| 2       | 2.293                  | 2.289          | 2.258                      | 1%                   |
| 3       | 2.252                  | 2.263          | 2.225                      | 2%                   |
| Average | 2.298                  | 2.300          | 2.267                      | 1%                   |

The maximum recorded % water absorption of the three samples was 2 %.

#### 4.4 Durability

Testing was carried out in accordance with AS/NZS 4858 Appendix A.

##### Test deviations.

No deviations were recorded.

##### Test conditions

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>Test specimen type</b>            | Type 2                         |
| <b>Specimen preparation method</b>   | Roll of Jointing Tape supplied |
| <b>Average test conditions</b>       | 23°C ± 2°C<br>50 %RH ± 10 %RH  |
| <b>Test machine accuracy grading</b> | A                              |
| <b>Elongation indicator</b>          | Extensometer                   |
| <b>Grip type</b>                     | Pneumatic                      |
| <b>Test speed, mm/min</b>            | 50                             |
| <b>Extensometer Gauge Length</b>     | 25 mm                          |

#### 4.4.1 Control testing

Table 6: Control tensile results.

| Specimen number | Thickness (mm) | Tensile strength (MPa) | % elongation |
|-----------------|----------------|------------------------|--------------|
| 1               | 0.85           | 3.1                    | 83.2         |
| 2               | 0.79           | 3.5                    | 99.5         |
| 3               | 0.80           | 3.1                    | 97.1         |
| 4               | 0.83           | 3.1                    | 67.7         |
| 5               | 0.80           | 2.9                    | 74.8         |
| 6               | 0.79           | 2.5                    | 47.2         |
| <b>Average</b>  | 0.81           | 3.0                    | 78.2         |
| <b>SD</b>       | 0.03           | 0.3                    | 19.6         |

No specimens have been rejected or replaced.

The average recorded membrane thickness of the six samples was 0.88mm.

The average recorded tensile strength of the six samples was 3.0 MPa.

#### Membrane classification criteria based on control testing.

| Membrane classification | Acceptance limit<br>% elongation at break |
|-------------------------|---|
| Class I                 | 10% - 59%                                 |
| Class II                | 60% - 299%                                |
| Class III               | ≥300%                                     |

Note: Membranes which achieve a % elongation at break of <10% are not classifiable as per AS/NZS 4858:2004.

The average recorded % elongation at break of the six samples tested was 78.2%. Based on the mean recorded % elongation at break, the membrane meets the requirements of Class II.

#### 4.4.2 Water immersion

Water immersion tensile test results are given in Table 7.

**Table 7: Water immersion tensile results.**

| Exposure Period        | Specimen Number                             | Thickness (mm) | Tensile Strength (MPa) | % elongation at break |
|------------------------|---|----------------|------------------------|-----------------------|
| 7 day water immersion  | 1   | 0.79           | 3.4                    | 108.2                 |
|                        | 2   | 0.80           | 3.0                    | 76.7                  |
|                        | 3   | 0.80           | 3.2                    | 74.2                  |
|                        | 4   | 0.79           | 3.6                    | 61.6                  |
|                        | 5   | 0.79           | 3.0                    | 85.3                  |
|                        | 6   | 0.79           | 3.4                    | 67.6                  |
|                        | Average                                     | 0.79           | 3.3                    | 78.9                  |
|                        | SD  | 0.01           | 0.2                    | 16.4                  |
|                        | <b>7 day percentage retention at break</b>  |                |                        |                       |
| 28 day water immersion | 1   | 0.80           | 2.9                    | 73.9                  |
|                        | 2   | 0.82           | 3.5                    | 60.5                  |
|                        | 3   | 0.80           | 2.7                    | 58.9                  |
|                        | 4   | 0.82           | 2.6                    | 96.2                  |
|                        | 5   | 0.76           | 3.2                    | 82.1                  |
|                        | 6   | 0.78           | 3.0                    | 48.6                  |
|                        | Average                                     | 0.80           | 3.0                    | 70.0                  |
|                        | SD  | 0.02           | 0.3                    | 17.5                  |
|                        | <b>28 day percentage retention at break</b> |                |                        |                       |
| 56 day water immersion | 1   | 0.80           | 3.2                    | 97.8                  |
|                        | 2   | 0.81           | 3.1                    | 85.0                  |
|                        | 3   | 0.78           | 3.1                    | 83.8                  |
|                        | 4   | 0.77           | 3.7                    | 62.1                  |
|                        | 5   | 0.81           | 2.6                    | 83.8                  |
|                        | 6   | 0.81           | 3.2                    | 82.7                  |
|                        | Average                                     | 0.80           | 3.2                    | 82.5                  |
|                        | SD  | 0.02           | 0.4                    | 11.5                  |
|                        | <b>56 day percentage retention at break</b> |                |                        |                       |

Test observations

No significant change in appearance was noted.

Acceptance criteria for water immersed samples:

The average elongation at break of the exposed specimens shall be  $\geq 50\%$  of that of the control samples for the bond breakers given in Table 6.1 in AS/NZS 4858:2004. Membranes with an average elongation at break for the exposed specimens between  $< 50\%$  and  $\geq 25\%$  of that of the control samples, require additional bond breaker relief above what is given in Table 6.1 in



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AS/NZS 4858:2004. A fail is recorded for membranes that give an average elongation at break for the exposed specimens that is <25% of that of the control samples.

The recorded retention of elongation at break was 105%. Based on the mean retention of % elongation at break this membrane meets the requirements of this test.

#### 4.4.3 Detergent immersion

Detergent immersion tensile test results are given in Table 8.

**Table 8: Detergent immersion tensile results.**

Test observations

| Exposure Period                             | Specimen Number | Thickness (mm) | Tensile Strength (MPa) | % elongation at break |
|---|-----------------|----------------|------------------------|-----------------------|
| 7 day n8 immersion                          | 1               | 0.80           | 3.4                    | 109.0                 |
|   | 2               | 0.81           | 2.7                    | 30.2                  |
|   | 3               | 0.82           | 2.8                    | 93.8                  |
|   | 4               | 0.81           | 2.8                    | 60.5                  |
|   | 5               | 0.81           | 2.8                    | 67.6                  |
|   | 6               | 0.78           | 3.2                    | 100.1                 |
|   | Average         | 0.81           | 2.9                    | 76.9                  |
|   | SD              | 0.01           | 0.3                    | 29.6                  |
| <b>7 day percentage retention at break</b>  |                 |                |                        | <b>98%</b>            |
| 28 day n8 immersion                         | 1               | 0.81           | 3.6                    | 77.9                  |
|   | 2               | 0.81           | 2.8                    | 63.7                  |
|   | 3               | 0.84           | 3.2                    | 62.7                  |
|   | 4               | 0.82           | 2.9                    | 51.0                  |
|   | 5               | 0.81           | 3.0                    | 101.2                 |
|   | 6               | 0.78           | 3.0                    | 103.6                 |
|   | Average         | 0.81           | 3.1                    | 76.7                  |
|   | SD              | 0.02           | 0.3                    | 21.7                  |
| <b>28 day percentage retention at break</b> |                 |                |                        | <b>98%</b>            |
| 56 day n8 immersion                         | 1               | 0.80           | 3.2                    | 68.3                  |
|   | 2               | 0.82           | 2.5                    | 42.0                  |
|   | 3               | 0.79           | 2.6                    | 70.4                  |
|   | 4               | 0.79           | 2.9                    | 73.0                  |
|   | 5               | 0.81           | 3.6                    | 90.5                  |
|   | 6               | 0.82           | 3.0                    | 48.9                  |
|   | Average         | 0.81           | 3.0                    | 65.5                  |
|   | SD              | 0.01           | 0.4                    | 17.6                  |
| <b>56 day percentage retention at break</b> |                 |                |                        | <b>84%</b>            |

No significant change in appearance was noted.

Acceptance criteria for detergent immersed samples:

The average elongation at break of the exposed specimens shall be  $\geq 50\%$  of that of the control samples for the bond breakers given in Table 6.1 in AS/NZS 4858:2004. Membranes with an



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average elongation at break for the exposed specimens between <50% and ≥25% of that of the control samples, require additional bond breaker relief above what is given in Table 6.1 in AS/NZS 4858:2004. A fail is recorded for membranes that give an average elongation at break for the exposed specimens that is <25% of that of the control samples.

The recorded retention of elongation at break was 84%. Based on the mean retention of % elongation at break, this membrane meets the requirements of this test.

#### 4.4.4 Bleach immersion

Bleach immersion tensile test results are given in Table 9.

**Table 9: Bleach immersion tensile results.**

| Exposure Period                             | Specimen Number | Thickness (mm) | Tensile Strength (MPa) | % elongation at break |
|---|-----------------|----------------|------------------------|-----------------------|
| 7 day bleach immersion                      | 1               | 0.82           | 2.8                    | 47.8                  |
|   | 2               | 0.82           | 3.0                    | 94.1                  |
|   | 3               | 0.78           | 3.1                    | 102.5                 |
|   | 4               | 0.83           | 2.4                    | 58.6                  |
|   | 5               | 0.79           | 3.5                    | 94.3                  |
|   | 6               | 0.80           | 3.3                    | 53.6                  |
|   | Average         | 0.80           | 3.0                    | 75.1                  |
|   | SD              | 0.02           | 0.4                    | 24.3                  |
| <b>7 day percentage retention at break</b>  |                 |                |                        | <b>96%</b>            |
| 28 day bleach immersion                     | 1               | 0.79           | 3.5                    | 110.4                 |
|   | 2               | 0.79           | 2.8                    | 73.1                  |
|   | 3               | 0.82           | 2.8                    | 98.7                  |
|   | 4               | 0.79           | 3.2                    | 59.3                  |
|   | 5               | 0.80           | 3.1                    | 94.7                  |
|   | 6               | 0.79           | 3.0                    | 78.7                  |
|   | Average         | 0.80           | 3.1                    | 85.8                  |
|   | SD              | 0.01           | 0.2                    | 18.8                  |
| <b>28 day percentage retention at break</b> |                 |                |                        | <b>110%</b>           |
| 56 day bleach immersion                     | 1               | 0.80           | 2.4                    | 71.6                  |
|   | 2               | 0.81           | 3.0                    | 73.3                  |
|   | 3               | 0.82           | 3.1                    | 79.6                  |
|   | 4               | 0.78           | 3.1                    | 88.9                  |
|   | 5               | 0.77           | 3.3                    | 61.8                  |
|   | 6               | 0.79           | 3.1                    | 72.4                  |
|   | Average         | 0.80           | 3.0                    | 74.6                  |
|   | SD              | 0.02           | 0.3                    | 9.0                   |
| <b>56 day percentage retention at break</b> |                 |                |                        | <b>95%</b>            |

#### Test observations

No significant change in appearance was noted.

Acceptance criteria for bleach immersed samples:

The average elongation at break of the exposed specimens shall be  $\geq 50\%$  of that of the control samples for the bond breakers given in Table 6.1 in AS/NZS 4858:2004. Membranes with an average elongation at break for the exposed specimens between  $< 50\%$  and  $\geq 25\%$  of that of the control samples, require additional bond breaker relief above what is given in Table 6.1 in AS/NZS 4858:2004. A fail is recorded for membranes that give an average elongation at break for the exposed specimens that is  $< 25\%$  of that of the control samples.

The recorded retention of elongation at break was 95%. Based on the mean retention of % elongation at break, this membrane meets the requirements of this test.

#### 4.4.5 Heat aging

Heat aging tensile test results are given in Table 10.

**Table 10: Heat ageing tensile results.**

| Exposure Period | Specimen Number                                  | Thickness (mm) | Tensile Strength (MPa) | % elongation at break |
|-----------------|--|----------------|------------------------|-----------------------|
| Heat Ageing     | 1  | 0.82           | 2.8                    | 52.4                  |
|                 | 2  | 0.82           | 2.8                    | 99.4                  |
|                 | 3  | 0.80           | 2.2                    | 47.3                  |
|                 | 4  | 0.82           | 2.7                    | 94.7                  |
|                 | 5  | 0.85           | 2.6                    | 88.4                  |
|                 | 6  | 0.78           | 3.2                    | 79.6                  |
|                 | Average  | 0.81           | 2.7                    | 77.0                  |
|                 | SD   | 0.02           | 0.3                    | 22.1                  |
|                 | <b>Heat Ageing percentage retention at break</b> |                |                        |                       |

#### Test observations

No significant change in appearance was noted.

Acceptance criteria for heat aged samples:

The average elongation at break of the exposed specimens shall be  $\geq 50\%$  of that of the control samples.

The recorded retention of elongation at break was 98%. Based on the mean retention of % elongation at break, this membrane meets the requirements of this test.



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## 5. REFERENCES

AS/NZS 4858:2004 Wet area membranes

AS 1145.3-2001, Determination of tensile properties of plastics materials - Part 3: Test conditions for films and sheet.

AS 3558.1-1999, Methods of testing plastics and composite materials sanitary plumbing fixtures Determination of water absorption characteristics.

ASTM E96-22, Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials.



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