



24 April 2019

Our Ref: EN13 / 2581 03/0211

TEST REPORT No. 8141A
(This is a rebadged from CSIRO report 8141)

Requested by: Fortis Adhesives & Coatings Pty. Ltd.
14 Commercial Drive
Dandenong South VIC 3175

On (date): 23 August 2018
Product Descriptions: HydroFort™ PU

Manufacturer: Fortis Adhesives & Coatings Pty. Ltd.

While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results or any actions taken by the client or any other person on the basis of the information contained in the report or any opinion expressed in it.

The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 4 pages.

SUMMARY OF ASSESSMENTS REPORTED

AS4858:2004 Wet Area Membranes, Elongation at break (Strain %)

Control 761% **Class III**

AS/NZS 4858:2004 Appendix B, Resistance of Waterproofing Membranes to Cyclic Movement **Pass**



REPORT NO: 8141A
ISSUE DATE: 24 April 2019
MANUFACTURER: Fortis Adhesives & Coatings Pty. Ltd.
PRODUCT DESC: HydroFort™ PU

Page 2 of 4

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

Test Date: 16 October 2018

RESULTS: Location: Ceramic Tile Laboratory
Conditions: 7 days at 23°C 50%RH
Sample Number: 8141 - 1 (Numbered 1 to 5)
Samples: Average of 5 samples
Load rate: 200mm/min

Elongation at Break

CONTROL SET

Sample Number	Sample Thickness Mean (mm)	Maximum Load (N)	Maximum Extension (mm)	Maximum Stress MPa	Maximum Strain %
8141 - 1 1 to 5	2.49	27.12	263.24	1.82	761

Requirement for Class III: The specimens have an average percentage strain of $\geq 300\%$

Classification: Class III (High extensibility)



REPORT NO: 8141A
ISSUE DATE: 24 April 2019
MANUFACTURER: Fortis Adhesives & Coatings Pty. Ltd.
PRODUCT DESC: HydroFort™ PU

Page 3 of 4

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix B: Assessment of Resistance of
Waterproofing Membranes to Cyclic Movement

Test Date: 26 October 2018

RESULTS: Location: Laboratory
Test Rig: Applied Test Systems
Series 904 Vertical Sealant Tester
Number of Cycles: 50
Type of Cycle: Full cycle
Cycle Time: 2 hours to complete full cycle
Cycle expansion: 50% of Control elongation at break
Sample Size: 65mm x 25mm
Sample Span: 2mm between header plates
Sample Thickness: 2.49mm

The test sample achieved a control Elongation of Break of 761% as per AS4858 Appendix A. For a Class III membrane type the extension movement used for cycling is 4.00mm extension.

Number of Cycles completed 50
Surface Cracking Nil
Surface Tears Nil
Membrane Rupture Nil

Result: PASS



Infrastructure Technologies

Gate 5, 2 Normanby Road Clayton VIC 3168, Australia
Telephone: 61 3 9545 2777 Web: <http://www.csiro.au>

REPORT NO: 8141A
ISSUE DATE: 24 April 2019
MANUFACTURER: Fortis Adhesives & Coatings Pty. Ltd.
PRODUCT DESC: HydroFort™ PU

Page 4 of 4

Date and Place 24 April 2019 Clayton, Vic

Name, Title and Signature:



KHANH HO
Technical Officer
Tel: 61 3 95452777 Email: Khanh.Ho@csiro.au