

Dated 16th Aug 2018



PSB Singapore

Note This report is subject to the Testing and Certification Regulations of the TUV SUD Group and the General Terms and Conditions of TUV SUD PSB Pte Ltd. In addition this report is governed by the terms set out within this report.

SUBJECT

ECOSEAL 100 WHITE

TESTED FOR

IDEAS LAB

3, Rothwell Street,

Redruth

Timaru

New Zealand 7910

Attn : Dr Nicholas Wall.

PRODUCT DESCRIPTION.

The ECOSEAL 100 liquid applied membrane was provided directly to TUV SUD in a 15L kits . The pails were labelled with Batch Numbers BX 180517 and BX 180519 and the coating was coloured white. The samples were received on June 15th 2018, and the preparation was completed over the next 7 days.

All samples were prepared by a TUV SUD technician at 1mm dry film thickness per coat, as specified . The coating was thoroughly mixed as parts A and B, then A+B together to a uniform consistency. The membrane was applied to a variety of substrates at the correct thickness using shims and drawdown technique. Coating application was done in a single pass and the samples were cured for seven days before testing.

The results were averaged over 5 samples, with the highest and lowest values discarded from the seven test sample group.



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TEST METHOD

The test specimens were evaluated in accordance with the following methods;

ASTM D4541 – 05 and ASTM D4541 – 09.

RESULTS.

Substrate	Maximum Failure MPa	Comments
Aged concrete	9.122	Failed in substrate
Coil coated steel	11.031	Failed within the Ecoseal 100
Butyl Rubber	9.991	Failed within the rubber
Bitumen coated concrete	8.999	Failed within the bitumen areas
Marine Plywood (12mm)	12.065	Failed within substrate
Aged galvanized steel sheet	10.134	Failed within the Ecoseal 100
MS Sealer	1.022	Failed within MS Sealer
Silicone Sealer	1.055	Failed within Silicone Sealer.

TEST SUMMARY.

ECOSEAL 100 is a very flexible, tough and highly adherent product which shows outstanding adhesion to all of the tested substrates. It is not felt that the level of forces encountered in severe wind events will exceed the adhesive strength of the ECOSEAL 100, provided that the substrate is properly prepared and has integrity itself.



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