

PERMEABILITY LABORATORY TEST REPORT

Laboratory Report Number: LR1516
Customer Reference Number: TBA
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Prepared For : Stonecoat Pty Ltd
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1. Sample Identification

Dried samples of bonded stone particle coating with a thickness of 4.0 mm.

2. Gases used

Test gas: 100% RH air
Carrier gas: dry nitrogen

3. Conditions

Conditioning: Sample was purged in test until a steady state, i.e. a constant value, was reached.
Test conditions: 25±2°C

4. Test Method

The test was carried out using a Versaperm MkV Permeability Meter, providing temperature control at 25±2°C and inlet gas flow control. The sample was clamped in a 50cm² area chamber using sealant to prevent leaks in the clamping area. One side of the sample was exposed to 100% RH air at atmosphere pressure. Dry nitrogen was passed over the other side of the sample. The concentration of water in the purging nitrogen flow was measured until a steady state was reached and no further change could be detected. As the concentration exceeded the upper level of the electrolytic cell, a ceramic capacitance dew point measuring sensor was substituted. Apart from this change, the test method matched ISO 15106-3. From the nitrogen flow rate, the water vapour transmission rate could be calculated.

5. Test Results

Sample Ref	Description	Nominal Thickness /mm	Water Vapour Transmission Rate / g/m ² /day
1	StoneCoat Film	4	296

Tested by:



Christopher Roberts
Technical Director
Versaperm Limited