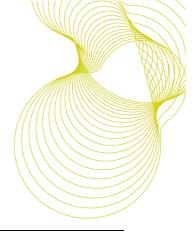
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Testing of Three Ply Floor Protection Product – Watertightness at 10 kPa

Prepared for: Mr Maged Elias Best Choice Floors Protection Manufacturing LLC P.O. Box 81161 Dubai U.A.E

5 July 2010

Test report number 259348/R2



Prepared by

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Approved on behalf of BRE

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Date	21/06/10

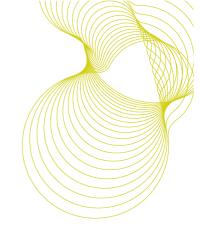
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Signature

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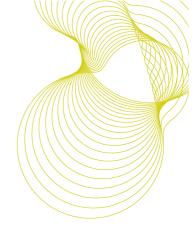
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1 Introduction

At the request of Mr Khadar Akkawi of the Dubai Central Laboratory, acting on behalf of Mr Maged Elias, Best Choice Floors Protection Manufacturing LLC, BRE have undertaken a watertightness test (to 10 kPa) on the floor protection product supplied by Best Choice Floors Protection Manufacturing LLC.

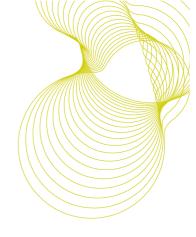
The product was a three ply hard sheet roll. The plies were composed of a corrugated paper layer covered by a flat hard paper adhered to a polyethylene facing layer.

Details of the samples received are shown in Table 1, with details of the watertightness test given in Section 2.

Sample Reference	Description	Date Received
259348/01	Three Ply Floor Protection Product	10/03/2010 and 13/04/2010
259348/02	Three Ply Floor Protection Product	24/04/2010

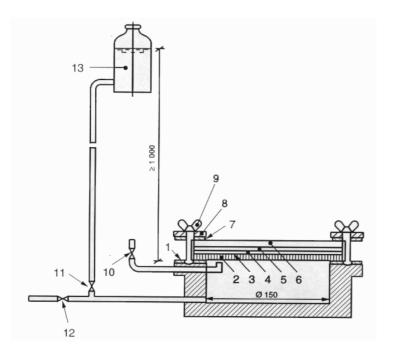
Table 1. Details of samples received

This report contains a factual account of the testing undertaken.



2 Details of tests carried out

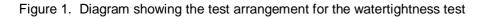
2.1 Watertightness

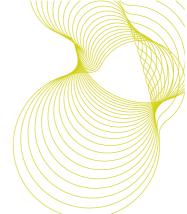


Key

- Lower rubber sealing gasket
- 2
- 3 4
- Lower rubber sealing gasket Test specimen inserted such that the surface normally exposed to the weather/water will be in contact with the water under test Laboratory filter paper Moisture indicating mixture uniformly spread over surface of test specimen. A moisture passing through the test specimen is readily detected using an indicator consisting of a mixture of fine white (circip) sugar (99,5 %) and methylene blue dye (0,5 %) sieved over a 0,074 mm mesh and dried over calcium chloride in a desiccator Laboratory filter paper Circular ordinary window glass sheet: 5 mm thick for pressure of water ≤ 60 kPa Upper rubber sealing gasket Steel clamping ring Wing nuts
- 5 6

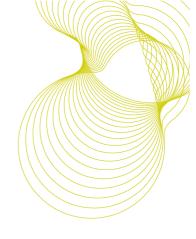
- 8 9 10 11 12 13
- Steel clamping ring Wing nuts Air exhaust valve Water inlet valve Water supply and draining valve Means to apply and control pressure up to 60 kPa





The specimens were tested following the method given in BS EN 1928 – Flexible sheets for waterproofing – Bitumen plastic and rubber sheets for roof waterproofing, but was modified to subject the specimens to a pressure of 10 kPa for 24 hours. This modification to the test method was agreed with the client prior to proceeding. Figure 1 shows the test arrangement.

The sampling was carried out in accordance with BS EN 13416. Samples were circular with a 200 \pm 2 mm diameter.



3 Test Results

3.1 Watertightness

The test was carried out in accordance with BS EN 1928 with a reduced pressure of 10 kPa between 9 - 15/06/10. Results are presented in Table 2 below.

Specimen Reference	Water Penetration	Result
259348/02/21	None	Pass
259348/02/22	None	Pass
259348/02/23	None	Pass
	Final Result	Pass

Table 2. Watertightness results for the product with 30 µm polyethylene coating at 10 kPa pressure.

======REPORT ENDS=========