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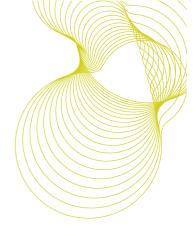
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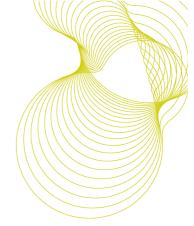
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Testing of Three Ply Floor Protection Product - Impact



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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 an impact test on the floor protection product supplied by Best Choice Floors Protection Manufacturing LLC.

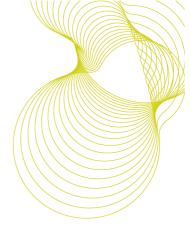
The product was a three ply hard sheet roll. The plies were composed of a corrugated paper layer covered by a flat hard paper adhered to a polyethylene facing layer.

Details of the samples received are shown in Table 1. Details of the impact test method are 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 Impact Resistance

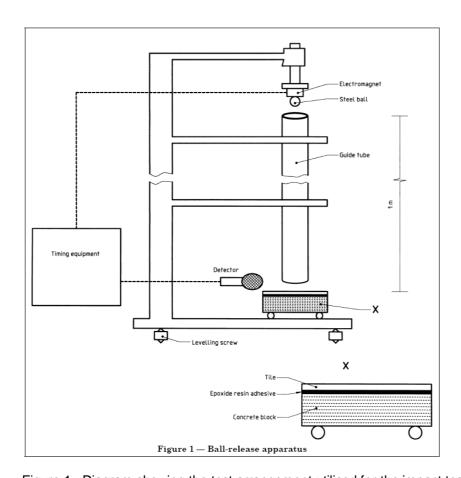
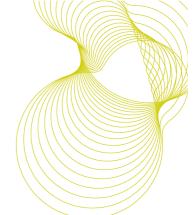


Figure 1. Diagram showing the test arrangement utilised for the impact testing.

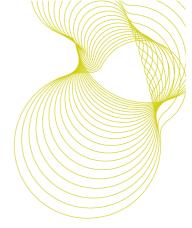
Impact resistance was carried out following the method given in BS EN ISO 10545-5 – Determination of impact resistance by measurement of coefficient of restitution, with Figure 1 above showing the test arrangement. The tiles used were unglazed 100 mm x 100 mm x 5 mm that were cut down to the required dimensions of 75 mm x 75mm.

Testing of Three Ply Floor Protection Product - Impact



The impact resistance was determined initially on uncovered ceramic tiles, and then repeated on tiles covered by the floor protection product as a comparative test. The test product was attached to the tile by construction tape.

The test was carried out on behalf of BRE by Ceram, Staffordshire.



3 Test Results

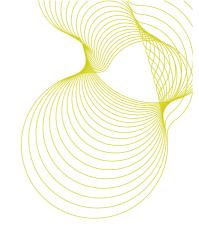
3.1 Impact Resistance

The results presented below are in accordance with Part 9 of BS EN ISO 10545. The tests were carried out on 27/04/10, with the results presented in Tables 2 and 3 below.

There was no indentation or cracking reported on the covered or uncovered tiles.

Specimen reference	Description	Coefficient of Restitution (1)	Coefficient of Restitution (2)	Coefficient of Restitution (3)
259348/01/1	Without product	0.74	0.73	0.74
259348/01/2	Without product	0.71	0.71	0.72
259348/01/3	Without product	0.70	0.70	0.71
259348/01/4	Without product	0.71	0.72	0.72
259348/01/5	Without product	0.69	0.71	0.71
			Average Coefficient of Restitution	0.71

Table 2. Impact resistance of ceramic tiles without test product overlay



Specimen reference	Description	Coefficient of Restitution (1)	Coefficient of Restitution (2)	Coefficient of Restitution (3)
259348/01/6	With product	0.56	0.56	0.56
259348/01/7	With product	0.60	0.60	0.59
259348/01/8	With product	0.59	0.60	0.62
259348/01/9	With product	0.63	0.63	0.61
259348/01/10	With product	0.57	0.57	0.58
		1	Average Coefficient of Restitution	0.59

Table 3. Impact resistance of ceramic tiles with test product overlay