

**Summary Of WARRES No's. 136762 & 136763  
Including Opinion Of Compliance With The  
Requirements For A Class 0 Surface  
As Defined In Paragraph A13(b)  
Of Approved Document B,  
(2000 Edition Incorporating 2002 Amendments)  
'Fire Safety', To The Building Regulations 2000**

**Sponsored By**

**Merlin Coatings Limited  
Unit 7 Kirkhall Workshops  
Bilbao Street  
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Lancashire  
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***W*arrington  
**FIRE**  
*research***

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**1 Terms Of Reference**

To assess the results of tests to BS 476:Part 6:1989 and BS 476:Part 7:1997, obtained on specimens of a product and to provide an opinion of compliance with the requirements for a Class O surface, as defined in Approved Document B to the Building Regulations 2000.

**2 Introduction**

Specimens of a product have been tested in accordance with the test methods specified in BS 476: Part 6: 1989 'Method of test for fire propagation of products' and BS 476: Part 7: 1997 'Surface spread of flame test for materials'. The results of the tests are fully reported in the test reports WARRES No's. 136372 and 136373.

This summary test report has been prepared at the request of the sponsor and relates the results of the tests to the requirements for a Class 0 surface of a material or composite product, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

This summary should be read in conjunction with, and not accepted as a substitute for, the test reports WARRES No's. 136372 and 136373. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

**3 Description Of Test Specimens**

The description of the specimens given below has been prepared from information provided by the sponsor of the tests. All values quoted are nominal, unless tolerances are given.

**The specimens comprised a 12mm thick calcium silicate based board having an oven dry density of 875kg/m<sup>3</sup> coated on one face with "Merlin Barrier Coating" a solvent free two part epoxy coating applied as follows:**

**One coat of "Merlin Barrier Coating" roller applied to a dry film thickness of 227 microns.**

One coat of “Merlin Barrier Coating” roller applied to a dry film thickness of 150 microns.

The sponsor stated that the first coating of “Merlin Barrier Coating” was allowed to cure for a period of 14 hours at a temperature of 20°C before application of the second coat.

The sponsor also stated that “Merlin Barrier Coating” is intended for use as a damp proof membrane in both new build and refurbishment projects.

Additional details relating to “Merlin Barrier Coating” have been provided and are held on our confidential file relating to this investigation.

The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

#### 4 Face Subjected To Tests

The specimens were mounted in the test positions such that the coated face was exposed to the heating conditions of the tests.

#### 5 Results Of Tests

The following results were obtained for the specimens, which were tested.

##### BS 476: Part 6: 1989

Fire propagation index, I = 5.1

subindex,  $i_1$  = 1.0

subindex,  $i_2$  = 3.8

subindex,  $i_3$  = 0.3

##### BS 476: Part 7: 1997

Class 1 surface spread of flame

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential hazard of the product in use.

#### 6 Opinion

We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

#### 7 Validity Of Opinion

This opinion is based on the requirements of the Building Regulations at the date of this report. If the Building Regulations are revised or amended in any way subsequent to that date, care must be taken to ensure that this opinion is not invalidated by those revisions or amendments.

The opinion has been formulated on the assumption that the specimens are representative of the product in practice. Warrington Fire Research Centre was not involved in any sampling or selection procedures which would confirm this or in any audit testing which would provide confidence in the consistency of the product in the tests.

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Responsible Officer



**C DEAN**

Laboratory Supervisor  
Reaction to Fire Testing

Approved



**P E LYTHGOE**

Testing Manager  
Reaction to Fire Testing

**for and on behalf of  
WARRINGTON FIRE RESEARCH CENTRE**

**Date Of Issue: 27<sup>th</sup> January 2004**