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BRE Global Test Report

BS 476-7: 1997 Surface spread of flame test on Mylands FR Emulsion White

Prepared for: John Myland Ltd

Date: 30 March 2023

Report Number: P124539-1002 Issue 1

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1 Objective

To classify the surface spread of flame characteristics of the sample described in Section 2 using the test method and criteria specified in British Standard 476: Part 7: 1997[1].

2 Sample

2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global were not involved in the sample selection process and therefore cannot comment upon the relationship between samples supplied for test and the product supplied to market. The test results relate to the samples as received.

2.2 Description of sample and test format

Unless otherwise stated all measurements are nominal.

Test Sponsor	John Myland Ltd, 26 Rothschild Street, London SE27 0HQ
Manufacturer of sample	As above
Sample name/reference	Mylands FR Emulsion White
Sample description (as provided by test sponsor/manufacturer)	Mylands FR Emulsion White Full product description of the sample provided by the test sponsor is given in Appendix A.
Description of sample (as received by BRE Global)	Plasterboard with white coating Photographs of the sample are given in Appendix B.
Mean sample weight per unit area (kg/m^2) (determined by BRE Global)	8.7
Mean sample thickness (mm) (determined by BRE Global)	12.5
Sample receipt date	12 January 2023 (BRE Ref E14638)
Test face	Coated face
Test format	The specimens were tested with 12mm calcium silicate boards behind them.
Date of test	27 February 2023

3 Conditioning

The specimens were conditioned as required by the standard.

4 Results

4.1 Flame spread data

Table 1 shows the observed spread of flame for each specimen at 1.5 minutes, 10 minutes and time to reach maximum flame spread distance.

Table 2 shows the time it takes to reach each reference point in minutes and seconds if applicable.

Table 1

Specimen	Maximum flame spread distance in 1.5 minutes (mm)	Maximum flame spread distance in 10 minutes (mm)	Time to reach maximum flame spread distance (minutes : seconds)
1	60	60	0:35
2	60	60	0:30
3	60	60	0:30
4	60	60	0:38
5	60	60	0:34
6	60	60	0:42

Table 2

Specimen	Time to reach each reference point (mm) in minutes : seconds													
	75	**165**	190	**215**	240	**265**	290	375	**455**	500	525	600	675	**710**
1	-													
2	-													
3	-													
4	-													
5	-													
6	-													

4.2 Observations

Specimen	Observations
1	60mm at 35 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.
2	60mm at 30 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.
3	60mm at 30 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.
4	60mm at 38 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.
5	70mm at 34 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.
6	60mm at 42 seconds. Visible flaming ceased at 60 seconds with the extinction of the pilot flame.

5 Classification

Exposed surfaces of materials used as linings for walls and ceilings are classified in Section 11 of the standard according to the rate and distance of spread of flame as shown in Table 3.

Table 3

Classification	Spread of flame at 1.5min		Final spread of flame	
	Limit mm	Limit for one specimen in sample mm	Limit mm	Limit for one specimen in sample mm
Class 1	165	165 + 25	165	165 + 25
Class 2	215	215 + 25	455	455 + 45
Class 3	265	265 + 25	710	710 + 75
Class 4	Exceeding the limits of Class 3			

6 Conclusion

The results show that the sample described in Section 2 of this report, when tested and classified in accordance with BS 476: Part 7: 1997, achieved **Class 1**.

7 Validity

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

The information in section 2.2 and Appendix A of this report, other than that indicated otherwise, has been supplied by the test sponsor and has not been independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurement of reaction to fire, it is not possible to provide a stated degree of accuracy of the results.

8 Reference

1 British Standard 476: Part 7: 1997. Fire tests on building materials and structures. Part 7 Method of test to determine the classification of the surface spread of flame of products. British Standards Institution, London 2014.

Appendix A Product description provided by the test sponsor

Company: John Myland Ltd.	
Parameter	**Details (if applicable)**
Trade name	Mylands FR Emulsion White
General description	
Name and address of manufacturer of product	John Myland Ltd, 26 Rothschild Street, London, SE27 0HQ
Place of manufacture	John Myland Ltd, 26 Rothschild Street, London, SE27 0HQ
Product reference/number	FR Emulsion White
Thickness (overall system)	160 micron WFT
Density (overall system)	2.3 kg/L
Mass per unit area (overall system)	2.3 kg/L
Generic type of product	
Flame retardant treatment added or organic content limited during production (yes/no), if yes give details	No
European product standard, if applicable	N/A
Industry/in-house product standard, if applicable	N/A
Attestation of conformity systems, if applicable	N/A
Top coat (1) (test face)	- Generic type - Product reference - Manufacturer - Colour - Specific density (wet) - Application rate (wet) (m^2/litre) - Dry film thickness (dft) - Mass per unit area/density (dry) - Inert filler (type, amount, density) (if applicable) - Trade name flame retardant - Generic type flame retardant - Amount flame retardant
	Emulsion paint FR Emulsion White Mylands White 1.45 14 m^2 / L 30 micron 2.3 kg/L Note 1 Note 1 Note 1 Note 1
Layer (2)	- Generic type - Product reference - Manufacturer - Colour - Specific density (wet) - Application rate (wet) (m^2/litre) - Dry film thickness (dft) - Mass per unit area/density (dry) - Inert filler (type, amount, density) (if applicable) - Trade name flame retardant - Generic type flame retardant - Amount flame retardant
	Emulsion Paint FR Emulsion White Mylands White 1.45 12 m^2 / L 25 micron 2.3 kg/L Note 1 Note 1 Note 1 Note 1
Substrate (if applicable) (see EN 13238)	- Generic type - Product standard - Product name/reference
	Plasterboard EN 520 Gyproc Plasterboard

Company: John Myland Ltd.	
Parameter	**Details (if applicable)**
- Manufacturer - Thickness - Density or mass per unit area - Class (EN 13501-1)	British Gypsum 12.5mm 700 kg/m^2 EN 520
Face to be tested	Front
Orientation aspects	N/A
Sampling Identification Reference	On the back of the board
Additional information:	N/A

Note 1: This information was not provided by the test sponsor.

Appendix B Sample photographs

Front test face

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