TNO-rapport / TNO report

2002-CVB-R06492

Large scale surface spread of flame examination according to British standard B.S. 476: Part 7: 1987/1990 of Mathys PARACEM paint system on 30 mm thick concrete slab support.

Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek / Netherlands Organisation for Applied Scientific Research

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Date	November 2002
Author(s)	W. Langstraat
Sponsor	Martin Mathys N.V. Kolenbergstraat 23 B-3930 ZELEM Belgium

This report was compiled in November 2002.
If it is to be consulted after a period of time, it is advisable to contact the Centre for Fire Research of TNO to check whether the usefulness remains unaltered.

Project name	Surface spread of flame-BS 476:7
Project number	006.25185/01.04.01
Number of pages	3
Number of tables	1

Subject:
Martin Mathys **PARACEM** paint system on 30 mm thick concrete slab.

Objective:
To classify the material according to its surface spread of flame characteristics, as shown by the large scale surface spread of flame test and the criteria of the British Standard 476: Part 7: 1987, including AMD 6249: 1990.

Contractor and manufacturer:
Martin Mathys N.V.
Kolenbergstraat 23
B-3930 ZELEM
Belgium

Period of test.
November 2002.

Period of issue and number of report:
November 2002; **2002-CVB-R06492**

Material:
Composition:
Paracem was stated by the sponsor to be a waterborn acrylic paint. Its finish is satin matt. The paint has a solids content of 60-63 mass% - 44-47 volume% and can be used inside and outside for old and new masonry, concrete and plaster.

Dimensions and densities:
Overall paint film thickness: nominally 130 µm (dry).
Overall nominal paint consumption: 7 – 10 m^2 per liter/coat.

Sampling and specimens information:
Coating application and sampling was carried out by the contractor.
For examination the Paracem paint had been applied in two coats, of 7m^2 per liter each, on 30 mm thick concrete slab support.
The submitted paint sample was coloured white.

Sample age:
No information received.

Period of delivery:
October 31, 2002.

Examination:
On the **Pegakote** coating/concrete slab combination a complete examination was carried out.

Test results: Martin Mathys **Paracem** acrylic paint system on 30 mm concrete slab.

Surface spread of flame according to BS 476. Part 7: 1987, incl. AMD 6249: 1990.

Test	Surface spread of flame during	
	the first 1½ minute	10 minutes
	mm	mm
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0

Assessment:
Based on the test results the examined Martin Mathys **Paracem** acrylic paint system, with a layer thickness of 130 µm (dry) and a surface consumption of approx. 7m^2/liter per coat, applied on a 30 mm thick concrete slab support, can be classified **Class 1** of surface spread of flame according to the British Standard **BS 476: Part 7:1987**, including AMD 6249: 1990.

Remark 1:
The test results relate only to the behaviour of the examined products under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.

W. Langstraat

Dr. F. Paap