

**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  
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Date November 2002

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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  
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**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  $\mu\text{m}$  (dry).  
Overall nominal paint consumption: 7 – 10  $\text{m}^2$  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 7 $\text{m}^2$  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.*

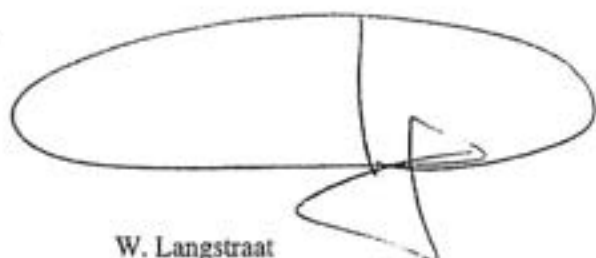
Test	Surface spread of flame during	
	the first 1½ minute	10 minutes
	mm	mm
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0

**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<sup>2</sup>/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