

**TNO-rapport / TNO report**

**2002-CVB-R06491**

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



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



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1987/1990 of Mathys PEGAKOTE coating system  
on 30 mm thick concrete slab support.

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Date November 2002

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Sponsor **Martin Mathys N.V.**  
Kolenbergstraat 23  
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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: Pt. 7  
Project number 006.25185/01.04.01  
Number of pages 3  
Number of tables 1

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**Subject:**

Martin Mathys **PEGAKOTE** coating 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-R06491**

**Material:***Composition:*

**Pegakote** was stated by the manufacturer to be a 2-component water dilutable epoxy coating based on a epoxy-amine and a bisphenol A-f resin component. Its finish is semi-gloss. The system can be applied indoor on floors and walls in garages, warehouses, showrooms, corridors, indoor car parks, workshops etc.

*Dimensions and densities:*

Overall coating thickness: nominally 200  $\mu\text{m}$  (dry).  
Overall nominal coating layer: 0.6  $\text{kg}/\text{m}^2$ .

*Sampling and specimens information:*

Coating application and sampling was carried out by the contractor.  
For examination the Pegakote coating had been applied in two layers of 0,3  $\text{kg}/\text{m}^2$  each on 30 mm thick concrete slab support.  
The submitted sample coating was coloured grey.

*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 **Pegakote** 2-component epoxy coating system on 30 mm thick concrete slab.

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

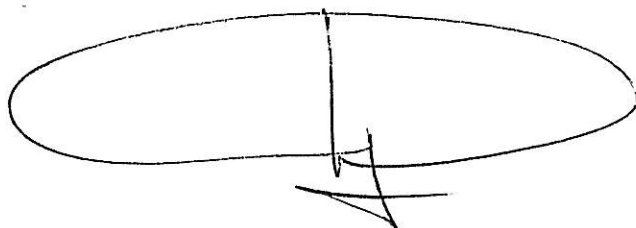
| Test | Surface spread of flame during |            |
|------|--------------------------------|------------|
|      | the first 1½ minute            | 10 minutes |
|      | mm                             | mm         |
| 1    | 0                              | 0          |
| 2    | 0               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

**Assessment:**

Based on the test results the examined Martin Mathys **Pegakote** 2-component epoxy coating system, with a layer thickness of 200 µm (dry) and total surface density of approx. 0.6 kg/m<sup>2</sup>, 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