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

TNO Building and Construction Research

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TNO report

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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: Pt. 7
Project number	006.25185/01.04.01
Number of pages	3
Number of tables	1

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 µm (dry).
Overall nominal coating layer: 0.6 kg/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 kg/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^2, 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