

## CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2007

<b>Sponsor</b>	HIM Chemie BV Postbus 1 NL-1950 AA VELSEN-NOORD The Netherlands
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<b>Notified Body no.</b>	1234
<b>Product name</b>	<b>Himfloor TF 10.000N</b> trowel flooring
<b>Classification report no.</b>	2008-Efectis-R0124
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This classification report consists of four pages and may only be used in its entirety.

This report is issued by the TNO company Efectis Nederland BV (previously **TNO** Centre for Fire Research). TNO decided, in response to international developments and requests by clients, to collaborate with two European Egolf partners, both highly experienced in fire safety: the Norwegian **Sintef/NBL** and the French **CTICM**. Thus, through scaling up, a more comprehensive service of high quality and a wider range of facilities can be offered. In order to achieve this, the fire safety related activities of the partners involved have been privatised in this collaboration. With respect to TNO this has led to the privatisation on the 1<sup>st</sup> of July 2006 of the activities of the TNO Centre for Fire Research via the establishment of the company Efectis Nederland BV.

## 1. Introduction

This classification report defines the classification assigned to **Himfloor TF 10.000N** trowel flooring in accordance with the procedures given in EN 13501-1: 2007, further referred to as 'the product'.

## 2. Details of classified product

### 2.1 General

The product is defined as a rigid floor covering.

### 2.2 Product description

According to the sponsor the product is a white coloured, solvent free 2-component epoxy floor covering system composed from bottom to top as follows:

- Base layer: Him Primer 30; application 0.35 kg/m<sup>2</sup>; density approx. 1,100 kg/m<sup>3</sup>
- Main layer: Himfloor TF 10.000; application 15 kg/m<sup>2</sup>; density approx. 2,000 kg/m<sup>3</sup>
- Surface finish: Himfloor FC450 Thixo; application 0.5 kg/m<sup>2</sup>; density approx. 1,500 kg/m<sup>3</sup>.

Overall product layer thickness: 8 to 10 mm.

Applied substrate: The product was applied on fibre cement board (ISO 390) as specified in section 5.1.2 of EN 13238: 2001.

## 3. Test reports & test results in support of classification

### 3.1 Test reports

Name of Laboratories	Name of sponsor	Test reports	Test method
Efectis Nederland B.V. The Netherlands	HIM Chemie BV Postbus 1 NL-1950 AA VELSEN- NOORD The Netherlands	2008-Efectis-R0122	EN ISO 11925-2:2002
		2008-Efectis-R0123	EN ISO 9239-1:2002

### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN-ISO 11925-2: 2002 surface flame impingement	Fs ≤150 mm	6	-	Compliant
	Ignition of filter paper		-	Compliant-
EN ISO 9239-1: 2002	Critical Heat Flux	3	≥ 11 kW/m <sup>2</sup>	-
	Smoke density		Nil	-

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 12 of EN 13501-1:2007

### 4.2 Classification

The product, **Himfloor TF 10.000N** trowel flooring, in relation to its reaction to fire behaviour is classified:

B<sub>fl</sub>

The additional classification in relation to smoke production is:

s1

**Reaction to fire classification: B<sub>fl</sub> - s1**

### 4.3 Field of application

This classification is valid for the following end use applications:

- As a floor covering system.

This classification is valid for the following product parameters:

Grey coloured 2-component Himfloor TF 10.000N  
composite as specified in 2.2

Overall layer thickness

6 – 8 mm

Overall system surface density

Approx. 16 kg/m<sup>2</sup>

The classification is valid for the following substrates:

- Non-combustible (A1 or A2) substrates as specified in EN 13238:2001 par. 5.1.2 (1800 ± 200 kg/m<sup>3</sup> – 6 mm) or concrete based floors.

### 4.4 Duration of the validity of this classification report

There are no formal limitations in time on the validity of this report. It is however strongly recommended to reconsider the content of this report after a period of maximum five years.

## 5. Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Signed

Approved



W. Langstraat



Dr. Ir. B. Sette