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Date  
2004-06-03

Reference  
P304465A

## Reaction to fire classification report of industrial polymer modified cementitious self levelling floor screeds

### Introduction

This classification report defines the classification assigned to industrial polymer modified cementitious self levelling floor screeds in accordance with the procedure given in EN 13501-1.

### Nature and end use application

The products are defined as polymer modified cementitious self levelling floor screeds. Its classification is valid for the end use application as screed material for use in floor construction internally.

According to the owner of this classification report, those products comply with the European product specification EN 13813:2002.

### Description

According to the client:

Industrial polymer modified cementitious self levelling floor screeds. The products are produced at the plant in Vingåker, Sweden. The products contain varying amounts of organic material as admixtures, dispersion powder and in some cases polymer fibres. The products consists of dry powder that prior to use are mixed with water (15 – 21 % by weight). The product is then poured or pumped onto the subfloor at a layer thickness of 4 – 30 mm. Products tested are listed below including organic content range and thickness range of each product. The exact amount of the organic content of the products is held on file by SP.

Table 1. Products.

Product name	Nominal organic content (%)	Nominal thickness (mm)
ABS 400 Duro Base	2.0 – 6.0	5 – 30
ABS 400 Polymert	2.0 – 6.0	5 – 30
ABS Industrigolv	2.0 – 6.0	5 – 30
ABS 402 Duro base Extra	2.0 – 6.0	5 – 30
ABS 402 Polymert	2.0 – 6.0	5 – 30
ABS 410 Duro Top	2.0 – 6.0	4 – 15
ABS 410 Polymert	2.0 – 6.0	4 – 15
ABS 410 Green	2.0 – 6.0	4 – 15
ABS 410 Red	2.0 – 6.0	4 – 15
ABS 410 Black	2.0 – 6.0	4 – 15
ABS 430 Duro Lit	2.0 – 6.0	5 – 15
ABS 430 Polymert	2.0 – 6.0	5 – 15
Cerinol GM15	2.0 – 6.0	5 – 15
ABS 430 Duro Lit Red	2.0 – 6.0	5 – 15
ABS 450 Duro Public	2.0 – 6.0	4 – 15
ABS 500	2.0 – 6.0	4 – 15

### Test reports

This classification is based on test reports listed in table 2.

Table 2. Test reports.

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	maxit AB	P304465	EN ISO 9239-1
SP	maxit AB	P304465-01	EN ISO 1716



**Test results**

The test results listed below show the worst case as found in the test programme performed and reported according to table 2.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 9239-1	<i>Critical flux</i> (kW/m <sup>2</sup> )	3	≥ 11	(-)
	<i>Smoke</i> (%.min)		25	(-)
EN ISO 1716	<i>PCS</i> (MJ/kg)*	4	0.99	(-)

(-) : not applicable  
\* : the product is homogeneous

**Reference and direct field of application**

This classification has been carried out in accordance with clause 9.3, 9.4, 11.7 and 11.9 of EN 13501-1:2002.

**Classification**

The products as listed in table 1 in this report in relation to its reaction to fire behaviour is classified:

The additional classification in relation to smoke production is:

A2<sub>n</sub>  
s1

The final classification is A2<sub>n</sub> -s1

**Field of application:**

This classification is valid for the following end use conditions:

**Substrates**

- Substrate of Euroclasses A1 or A2, having a thickness > 6 mm and having a density > 1350 kg/m<sup>3</sup>.

This classification is also valid for the following product parameters:

Nominal thickness: (see table 1 in this report).

Nominal organic content: 2.0 – 6.0 %.

**Restrictions**

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**Warning**

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

**SP Swedish National Testing and Research Institute**  
**Fire Technology - Materials Reaction to Fire**



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