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Reference
P401099A

Reaction to fire classification report of product “Grafo Therm”

Introduction

This classification report defines the classification assigned to the product “Grafo Therm” in accordance with the procedure given in EN 13501-1.

Nature and end use application

The product “Grafo Therm” is defined as an anti condensation coating. Its classification is valid for the end use application as surface finish on steel.

Description

According to the client:
Anti condensation coating called “Grafo Therm”, consisting of water based styrene-acrylic resin and perlite. Painted on steel plate with a nominal thickness of 0.9 mm. The amount of paint on the steel plate is 0.6 kg/m² (0.2 kg/m² dry basis). The paint has a nominal density of 1.0 g/cm³.

Test reports

This classification is based on test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	KEFA Drytech AB	P401099	EN 13823
SP	KEFA Drytech AB	P3 02861-01	EN ISO 1716

Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN 13823		3		
	<i>FIGRA</i> _{0,2MJ} (W/s)		34	(-)
	<i>FIGRA</i> _{0,4MJ} (W/s)		0	(-)
	<i>LFS</i> < edge		(-)	Yes
	<i>THR</i> _{600s} , (MJ)		0.4	(-)
	<i>SMOGRA</i> , (m ² /s ²)		0	(-)
	<i>TSP</i> _{600s} , (m ²)		35	(-)
Flaming droplets/particles	(-)	No flaming droplets/particles		
EN ISO 1716		3		
	<i>PCS</i> (MJ/m ²) (2)		2.45	(-)
	<i>PCS</i> (MJ/kg) (4)		0.37	(-)

(-) : not applicable

(2): the parameter for the product when applied on steel (external non-substantial component)

(4): the parameter for the combination as a whole when the product is applied on steel

Reference and direct field of application

This classification has been carried out in accordance with clause 8.3, 8.4, 8.5, 10.7, 10.9 and 10.10 of EN 13501-1:2002.

Classification

The product called "Grafo Therm" in relation to its reaction to fire behaviour is classified:

The additional classification in relation to smoke production is:

The additional classification in relation to flaming particles/droplets is:

A2

s1

d0

The final classification is **A2-s1,d0**

Field of application:

This classification is valid for the following end use conditions:

Substrates

- Metal substrates with a melting point equal or greater than 1000 °C and thickness ≥ 0.9 mm.

This classification is also valid for the following product parameters:

Amount of coating 0.6 kg/m² (0.2 kg/m² dry basis).

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

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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