



Mfpa Leipzig GmbH

Prüf-, Überwachungs- und Zertifizierungsstelle für
Baustoffe, Bauprodukte und Bausysteme

Division III - Structural Fire Protection

Dipl.-Ing. Sebastian Hauswaldt

Team 3.1 - Fire behaviour of Building Products

Mathias Claus

Phone +49 (0) 341 - 6582-125

claus@mfpa-leipzig.de

Classification report no. KB 3.1/14-429-6

Fire behaviour classification report

from 13 February 2015

1st copy

Client: Wallguard Systems Ltd
Unit 5 Archers Park,
Branbridges Road,
East Peckham,
Tonbridge,
Kent TN12 5HP
United Kingdom

Request: Fire behaviour classification according to DIN EN 13501-1:2010-01*

Subject matter: Systexx – Opti Emulsion

Date of order: 14/11/2014

Person in charge: M. Claus

This document consists of 5 pages.

This document may only be copied in an unabridged form. Any publication – including extracts – requires the prior written approval of Mfpa Leipzig GmbH. The German document with original signatures and the original seal of the authorized signatory is the legally binding version.

The terms and conditions (T&C) of Mfpa Leipzig GmbH apply.



Deutsche
Akkreditierungsstelle
D-PL-11021-01-00

Testing laboratory accredited by DAkks GmbH in accordance with DIN EN ISO/IEC 17025. The accreditation only applies for the testing methods listed in the certificate (marked with * in this document). The certificate can be seen at www.mfpa-leipzig.de.

Approved test centre according to the Landesbauordnung [state building code] (SAC 02) and notified testing laboratory, inspection body and certification body (PÜZ-Stelle) according to the Construction Products Regulation (NB 0800).

Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH (Mfpa Leipzig GmbH)

Registered offices: Hans-Weigel-Str. 2b – 04319 Leipzig/Germany
Managing Director: Prof. Dr.-Ing. Frank Dehn
Companies' District Court Leipzig HRB 17719
Register: DE 813200649
VAT ID No.: +49 (0) 341 - 6582-0
Tel.: +49 (0) 341 - 6582-135
Fax:

1 Details of the classified building product

1.1 General remarks

According to the client, the system Systexx – Opti Emulsion is a decorative wall covering product. According to the client, this building product is subject to the harmonised European product standard
DIN EN 15102:2011-12.

1.2 Description

The Systexx – Opti Emulsion coating system for decorative wall covering is described in detail in the test report PB 3.1/14-429-4, dated 12 February 2015.

The colour of the product group sample was white.

The following characteristics of the system were specified by the client.

Designation	Thickness [mm]	Area density [g/m ²]	Loss on ignition [g/m ²]
10 simulated old coatings	approx. 0.5 Total	approx. 100 per coat	-
SYSTEXX Active S38 wall covering - Gross area density - Area density of finish - Volume of applied glue - Total area density	approx. 0.66	155 ± 10% 52 ± 15% 38 ± 15% 245 ± 15%	approx. 90
2 coat of paint with OPTIBACT, Opti Emulsion	0.1 Total	approx. 100 per coat	-
Total thickness	approx. 1.26	-	-

2 Test reports and test results this classification is based on

2.1 Reports

Name of lab	Client	Number of the test report	Test method
MFPA Leipzig GmbH	Wallguard Systems Ltd	PB3.1/14-429-4 from 12/02/2015	DIN EN 13823
MFPA Leipzig GmbH	Wallguard Systems Ltd	PB3.1/14-429-5 from 12/02/2015	DIN EN ISO 11925-2 (Ignition time 30s)

2.2 Results

Test method	Parameter	Number of tests	Test results	
			steady parameters (mean value)	Requirement met (Y/N)
DIN EN 13823	FIGRA _{0.2 MJ}	3	32	(-)
	FIGRA _{0.4 MJ}	3	24	(-)
	LFS < edge	3	(-)	J
	THR _{600s} [MJ]	3	1.2	(-)
	SMOGRA [m ² /s ²]	3	0	(-)
	TSP _{600s} [m ²]	3	29	(-)
	Flaming droplets/particles	3	(-)	no flaming droplets/particles
DIN EN ISO 11925-2 Surface and edge ignition, ignition time 30s	F _s ≤ 150 mm	8	(-)	J
	flaming droplets/particles	8	(-)	no flaming droplets/particles
	Ignition of the filter paper	8	(-)	no ignition

(-) not applicable

3 Classification and field of application

3.1 Basis of the classification

This classification was performed in accordance with sections 11 and 14.1 of standard DIN EN 13501-1:2010-01 and product standard DIN EN 15102:2011-12.

3.2 Classification

Regarding its fire behaviour, the Systexx – Opti Emulsion system for decorative wall covering is classified as follows: B

The additional classification regarding the development of smoke is: s1

The additional classification regarding flaming droplets/particles is: d0

The format of the fire behaviour classification of the building products is:

Fire behaviour		Development of smoke			flaming droplets/particles	
		s	1		d	0
B	-	s	1		d	0

this means **B – s1, d0**

Fire behaviour classification: B – s1, d0

3.3 Area of application of the product

The classification in section 3.2 applies to the building product described in section 1 and is valid for the following end application conditions:

- The Systexx – Opti Emulsion system for decorative wall covering may be used on plasterboards and on Euroclass A1 or A2-s1, d0 base coats with a gross density of 525 kg/m³ and a minimum thickness of 12 mm.
- The classification applies to old coatings with a total thickness of approx. 0.5 mm.
- The classification applies to the SYSTEXX Active S38 wall covering with a water-activated glue layer at the back, an area density of 245 g/m² ± 15% and a loss on ignition of approx. 90 g/m².
- This classification applies to the OPTIBACT double renovation coating specified in section 1.2 with an application volume of approx. 100 g/m² per coat.
- The maximum total thickness of the decorative wall covering may not exceed the specifications in section 1.2.

4 Restrictions

- 4.1 A combination with other building products, especially insulating materials with other gross density ranges than specified in section 3.3, can have an adverse effect on the fire behaviour so that the classification in section 3.2 is no longer valid. The fire behaviour in combination with other building products or for other gross density ranges or thickness ranges must be tested separately.
- 4.2 The classification of the building product according to this report is suitable for a manufacturer's declaration of conformity in the context of verification procedure system 3 together with a CE marking according to the Construction Products Regulation. The manufacturer has provided a declaration which was included in the documents. It confirms that the product design does not involve any specific processes, methods or procedures (e.g. no addition of flame-retardant substances, limitation of organic components or additions to filler material) improving the fire behaviour to obtain the achieved classification. As a consequence, the manufacturer came to the conclusion that system 3 of the conformity verification procedure is suitable. This is why the test centre did not play a role in sample selection. The test centre, however, does hold appropriate references issued by the manufacturer to track the tested samples.
- 4.3 This document is not a type approval or product certification and does not replace a verification according to German building law (*Landesbauordnung* [state building code]), which may be required.
- 4.4 This classification report is valid as long as the product composition or the product design, the raw materials or the production process and the construction regulations or the basis for the evaluation do not change.

Leipzig, 13 February 2015

Dipl.-Ing. S. Hauswaldt
Head of Division

N. Neumann, M.Sc.
Head of Laboratory

M. Claus
Person in charge

Authentication

I have examined the German original/photocopy/facsimile and this is a true translation of the same into English.

Barbara Wohanka, registered translator for the English language at the District Court of Landshut, Germany

Geisenhausen, 06 March 2015

Barbara Wohanka

