

Reaction to fire classification report

1. Introduction

This classification report defines the classification assigned to *Paint C-COAT STANDARD NF™* produced by *SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12* in accordance with the procedures given in PN-EN 13501-1:2019-02



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*Institute of Ceramics and Building Materials is a Notified Body no. 1487
In the field of reaction to fire*

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH PN-EN 13501-1:2019-02

Sponsor	SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12
Prepared by	Research Network ŁUKASIEWICZ Institute of Ceramics and Building Materials Division of Glass and Building Materials ul. Cementowa 8, 31 – 983 Kraków Department of Gypsum and Building Chemistry
Notified Body No	1487
Product name	Paint C-COAT STANDARD NF™
Classification report No	KG-75/19/N
Issue number	1
Date of issue	23.08.2019
This classification report consists of four pages and may only be used or reproduced in its entirety	

2. Details of classified product

2.1 General

The product, *Paint C-COAT STANDARD NF™* produced by *SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12* is a waterborne thermal insulation barrier, energy preservation coating developed for insulation all type of surfaces at recommended application temperatures.

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2.2 Product description

The product, *Paint C-COAT STANDARD NF™* produced by *SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12*, is described below or is described in the test reports provided in support of classification listed in 3.1.

Product description
<i>Paint C-COAT STANDARD NF™</i> <i>Consumption: 0,6 kg/m²</i> <i>Density: 600 kg/m³</i> <i>Layer thickness: 0,5 – 1 mm</i> <i>Summary thickness: 1,5 - 2 mm.</i>

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
<i>Department of Gypsum and Building Chemistry Institute of Ceramics and Building Materials</i>	<i>SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12</i>	<i>152/19/KG/N</i>	<i>PN-EN 13823:2010</i>
<i>Department of Gypsum and Building Chemistry Institute of Ceramics and Building Materials</i>	<i>SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12</i>	<i>153/19/KG/N</i>	<i>PN-EN ISO 11925-2:2010</i>

3.2 Test results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
<i>PN-EN 13823:2010 Paint C-COAT STANDARD NF™ 152/19/KG/N</i>	<i>FIGRA_{0,2 MJ} [W/s]</i>	3	<i>25,54</i>	<i>Not Applicable</i>
	<i>FIGRA_{0,4 MJ} [W/s]</i>		<i>27,72</i>	<i>Not Applicable</i>
	<i>LFS < Edge of the sample</i>		<i>Not Applicable</i>	<i>Yes</i>
	<i>THR_{600s} [MJ]</i>		<i>0,54</i>	<i>Not Applicable</i>
	<i>SMOGR_A [m²/s²]</i>		<i>0,00</i>	<i>Not Applicable</i>
	<i>TSP_{600s} [m²]</i>		<i>18,78</i>	<i>Not Applicable</i>
	<i>Flaming drops</i>		<i>Not Applicable</i>	<i>No</i>
<i>PN-EN ISO 11925-2:2010 Paint C-COAT STANDARD NF™ 153/19/KG/N</i>	<i>F_s ≤ 150 mm w czasie 60 s</i>	12	Not Applicable	Yes

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2019-02

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4.2. Classification

The product, *Paint C-COAT STANDARD NF™ produced by SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12* in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1,d0

4.3. Field of application

This classification is valid for the following product *Paint C-COAT STANDARD NF™ produced by SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12* described in Section 2.2 of this report classification.

The classification refers to the product applied to non-flammable substrates classified A1 or A2, s1-d0 in reaction to fire classification.

This classification is valid for the following end use application in conformity with the technical conditions the building and its location should meet. In conformity with the regulation of the Minister of Infrastructure as of 12th April 2002 on technical requirements that should be met for buildings and their localization as amended, the classification assigned to the *Paint C-COAT STANDARD NF™ produced by SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12* defines the product as **non-ignitable and non dripping**

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 products 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.

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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.


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inżynier inżynier techniczny

mgr inż. Anna Parylak

signature of person undertaking classification

Approved by

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mgr inż. Klaudiusz Berkewicz

signature of person authorising this report


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Total numbers of pages: 2		Test report 152/19/KG/N		Page 1 st
Sponsor		SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12		
Agreement		416/3L087G19		
TEST METHOD:				
EN 13823:2010 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item				
TEST SAMPLE (Data based on a statement Sponsor)	Manufacturer	SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12		
	Tested sample	Paint C-COAT STANDARD NF™		
	Data concerning a sampling scheme	Samples delivered by Sponsor		
	Sampling method	N/A		
	Date and place of sample collection	N/A		
	Sample collected by	N/A		
Date of sample delivery to laboratory	10.06.2019 (Registration number 402/19/N)			
Construction of the test sample	Samples in accordance with the ETAG 004:2010 Annex D Figure D1			
Description of substrate and fixing to the substrate	The product tested on the backing of plasterboard according to with EN 13238:2011			
Details of conditioning	Storage of the samples in accordance with PN-EN 13238:2011, p. 4.2.			
Tests duration	18.07.2019			
Deviations from EN 13823:2010	No			
Test conditions				
Characteristics	Test sample 1	Test sample 2	Test sample 3	
Volume flow of the exhaust [m ³ /s]	0,50-0,65	0,50-0,65	0,50-0,65	
Ambient temperature [°C]	18,74	20,88	22,09	
Ambient pressure [kPa]	98,46	98,48	98,49	
Ambient relative humidity [%]	55,71	45,98	43,91	

Total numbers of pages: 2		Test report 152/19/KG/N			Page 2 nd	
RESULTS						
No.	Characteristics	Test sample 1	Test sample 2	Test sample 3	Mean value	Requirements for class A2-s1, d0 by EN 13501-1
1.	FIGRA _{0,2 MJ} [W/s]	0,00	42,32	34,30	25,54	≤ 120 W/s
2.	FIGRA _{0,4 MJ} [W/s]	67,59	15,57	0,00	27,72	No requirements
3.	THR _{600s} [MJ] total amount of heat during 600 s	1,26	1,03	0,54	0,94	≤ 7,5 MJ
4.	SMOGRA [m ² /s ²]	0,00	0,00	0,00	0,00	≤ 30 m ² /s ²
5.	TSP _{600s} [m ²] total amount of smoke emitted during 600 s	18,84	17,81	18,78	18,48	≤ 50 m ²
OBSERVATIONS						
No.	Characteristics	Test sample 1	Test sample 2	Test sample 3	Requirements for class A2-s1, d0 by EN 13501-1	
6.	LFS – propagation of flame(+/-)	-	-	-	< Edge of sample	
7.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occur	
8.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occur	
9.	Short-term flame on surface (+/-)	-	-	-	No requirements	
10.	Falling part of the test piece (+/-)	-	-	-	No requirements	
11.	The smoke is not coming to the hood (+/-)	-	-	-	No requirements	
12.	Damage to the rear panels (+/-)	-	-	-	No requirements	
13.	Deformation / destruction of the test piece (+/-)	-	-	-	No requirements	
14.	Premature termination of the test (+/-)	-	-	-	No requirements	
Comments and observations made during research:						
Annexes						
<ol style="list-style-type: none"> 1. Photographs showing the attachment of the sample 2. Graphs of parameters for classifying samples 1 3. Graphs of parameters for classifying samples 2 4. Graphs of parameters for classifying samples 3 						
The test results are average value. The results apply to test sample, only. Without written agreement of laboratory the test report can be copy entirely only.						
Cracov, 23.08.2019						

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Total numbers of pages: 2	Test report 153/19/KG/N		Page 1 st
Sponsor	SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12		
Agreement	416/3L087G19		
TEST METHOD:			
EN ISO 11925-2:2010 Reaction to fire tests -- Ignitability of products subjected to direct impingement of flame -- Part 2: Single-flame source test			
TEST SAMPLE (Data based on a statement Sponsor)	Manufacturer	SHAROM LLC, 65006, CITY ODESA, STREET KRASNOSLOBIDSKA, BUILDING 1/12	
	Tested sample	Paint C-COAT STANDARD NFT™	
	Sample description	Density: appx 600 kg/m ³ Mass per area: appx 0,34 kg/m ² Thickness of sample: appx 14,0 mm	
		Construction of the test sample: 1 Plasterboard – 12,0 mm 2 Paint – 2,0 mm	
		Description of substrate and fixing to the substrate Plasterboard	
	Data on the sampling plan	Samples delivered by Sponsor	
	Method of sampling	N/A	
	Date and place of sampling	N/A	
	Sampling by	N/A	
Date of delivered samples	10.06.2019 (Registration number 402/19/N)		
Details of conditioning	Storage time: 48 h next drying at the solid mass in condition: T (23 ± 2) °C and RH (50 ± 5) %.		
Date of testing	21.08.2019 – 23.08.2019		
Intended use	Paint		

Total numbers of pages: 2		Test report 153/19/KG/N					Page 2 nd	
RESULTS								
No.	Characteristics	Action surface – duration of exposure 30 s						
		Test sample 1	Test sample 2	Test sample 3	Test sample 4	Test sample 5	Test sample 6	
1.	Ignition of sample	No	No	No	No	No	No	
2.	Range of flame above 150 mm above the point of application of the flame	No	No	No	No	No	No	
3.	Time of flame above 150 mm	-	-	-	-	-	-	
4.	Flaming droplets and particles which are the cause ignition of the filter paper	No	No	No	No	No	No	
No.	Characteristics	Action Side - flank– duration of exposure 30 s						
		Test sample 1	Test sample 2	Test sample 3	Test sample 4	Test sample 5	Test sample 6	
1.	Ignition of sample	No	No	No	No	No	No	
2.	Range of flame above 150 mm above the point of application of the flame	No	No	No	No	No	No	
3.	Time of flame above 150 mm	-	-	-	-	-	-	
4.	Flaming droplets and particles which are the cause ignition of the filter paper	No	No	No	No	No	No	
No.	Characteristics	Requirements for class B-s1,d0 by PN-EN 13501-1				Compliance with parameters		
1.	Range of flame above 150 mm above the point of application of the flame during 60 s	Fs ≤ 150 mm during 60 s				compliant		
2.	Flaming droplets and particles which are the cause ignition of the filter paper	No flaming droplets and particles which are the cause ignition of the filter paper				compliant		
Visual observations								
Sooty during action surface. Sooty and carbonization during side-flank action								
Comments: -								
The test results are average value. The results apply to test sample only and they cannot be the only criterion for assessing a potential fire risk. Without written agreement of laboratory the test report can be copy entirely only.								
Cracov, 23.08.2019								

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