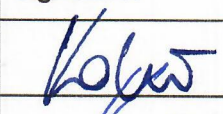





TEST REPORT

Test Report No.:	0185-19-F		
Title:	Fire Safety Test according IMO 2010 FTP Code part 5		
Client: Address:	South regional center of examination of fire-prention in construction (SRCEFSC Ltd) 344002, Rostov-on-Don, Russia		
Contract No.: Purchase Order No.:	0147-19		
Date of issue:	13. 11. 2019		
Test was carried out at:	CZ testing institute s.r.o. Sokolovská 637, 741 01 Nový Jičín, Czech Republic		
	Name:	Job description:	Signature:
Measured and prepared by:	Jiří Kokeš	Test Technician	
Checked by:	Daniel Kudláček	Head of Test Laboratory	
Approved by:	Daniel Kudláček	Head of Test Laboratory	
Number of Pages:	5	Stamp:  CZ testing institute s.r.o. Sokolovská 637, 741 01 Nový Jičín IČ: 05222851 DIČ: CZ05222851	
Number of Attachments:	1		

Declaration: The test results relate only to test samples and do not replace any other documents which may be required by the relevant state authorities in accordance with a specific legislation and do not replace the Certificate of Conformity within the meaning of §13 of the Act. No.: 22/1997, Coll.

This report may not be copied in full or in part without the written approval of the Head of Test Laboratory, CZ testing institute s.r.o.

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1 TEST OBJECTIVE

Carry out fire protection tests.

2 SCOPE AND SPECIFICATION OF TESTS

Carry out tests in accordance with IMO 2010 FTP Code part 5 standard.

3 TESTED ITEM

Test supplier is responsible for correct samples, their technical conditions and the compliance with documentation delivered. The samples were delivered by the ordering party.

3.1 Sample description

Trade name	2k epoxy mixture for self-leveling floor Alfapol EP-2TG with layer thickness 1,5 mm (20.16.40-001-82166262) without substrate Manufacturer "ALFAPOL Ltd" Pushkin, Saint-Petersburg, Russia, 196600
Sample marking	19/0173
Sample composition and colour	2k epoxy mixture for self-leveling floor Alfapol EP-2TG with layer thickness 1,5 mm (20.16.40-001-82166262), grey colour
Tested side	With rough surface

3.2 Sample identification and date of sample delivery

19/0173

Date of sample delivery: 31. 10. 2019

Test date: 12. 11. 2019

3.3 Sample preparation

Sample conditioning to the identical weight according to IMO FTP 2010 appendix 5, paragraph 7.7.

4 TESTING METHODS AND PROCEDURE

4.1 Testing methods used

M15.26 (ISO 5658-2) – Reaction to fire tests – Spread of Flame – Part 2: Lateral spread on building and transport products in vertical configuration

5 TEST DIAGRAM

Not defined

6 COURSE OF TEST AND MEASURED RESULTS

6.1 Test methodology in accordance with ISO 5658-2

6.1.1 Test equipment settings

Gas: Propane

6.1.2 Test conditions

Temperature: 22,5 °C to 25,5 °C / Relative humidity: 38 % to 41 %

Testing of samples				
	A1/1	A1/2	A1/3	Average
Sample thickness [mm]	2,7	2,8	2,6	2,7
Sample dimensions [mm x mm]	(800x155)	(800x155)	(800x155)	(800x155)
Separate flame burning [s]	(-)	(-)	(-)	(-)
Test duration [s]	1800	1800	1800	1800
Flame range [mm]	440	445	440	441,6
Heat for stable burning Qsb [MJ/m ²]	1,82	1,9	1,8	1,84
Critical flow during CFE extinguishing (kW/m ²)	14,6	13,2	14,6	14,1
Total heat release Qt [MJ]	0,8	0,9	0,8	0,8
Peak heat release rate [kW]	4,9	5,2	5,1	5,1

Observation during testing: Without droplets,

Exfoliation occurred during the test,

No flame on sample surface.

Problems during testing: None

Flame front motion test				
Distance from the hottest end of the sample	Verified heat flow value*	Time to reach the distance by the flame front		
		Sample		
		A1/1	A2/2	A3/3
[mm]	[kW/m ²]	[s]		
50	50,08	(34)	(33)	(35)
100	(-)	(34)	(34)	(36)
150	46,15	(34)	(35)	(36)
200	(-)	(35)	(35)	(39)
250	37,22	(41)	(42)	(41)
300	(-)	(53)	(55)	(50)
350	24,71	(72)	(78)	(52)
400	(-)	(155)	(159)	(156)
450	13,52	(-)	(-)	(-)
500	(-)	(-)	(-)	(-)
550	6,49	(-)	(-)	(-)
600	(-)	(-)	(-)	(-)
650	3,39	(-)	(-)	(-)
700	(-)	(-)	(-)	(-)
750	1,47	(-)	(-)	(-)

*Measured verification values according to IMO FTP 2010 Appendix 5, paragraph 6.1 and 6.2.

Verification carried out at 12. 11. 2019

7 CONCLUSION

Evaluation for primary deck covering and floor covering					
	A1/1	A1/2	A1/3	Average	Criteria
Critical flow during CFE extinguishing (kW/m ²)	14,6	13,2	14,6	14,1	7
Heat for stable burning Qsb [MJ/m ²]	1,82	1,9	1,8	1,84	0,25
Total heat release Qt [MJ]	0,8	0,9	0,8	0,8	2
Peak heat release rate [kW]	4,9	5,2	5,1	5,1	10

The tested product fulfils classification criteria of IMO 2010 FTP Code Part 5 for materials used as primary deck coverings and floor coverings.

Any unforeseen events or deviations from the set procedure: None

In evaluation of the test results shared risk was taken into account and the uncertainty was not considered.

The test results relate to the behaviour of the specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test was carried out in accordance with the current test methods and the Client's contractual requirements.

Appeal may be filled against test results within 15 days of the Test Report receipt in writing or electronically (via email) to the Head of Test Laboratory.

----- END OF REPORT -----

8 ATTACHMENTS TO THE TEST REPORT



Figure 5 – Samples – CFE test