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TEST REPORT No. 1861-2014

NPA 1709/14

Date 28/11/2014

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<i>Applicant</i>	NORD RESINE S.p.A. Via Fornace Vecchia, 79 - 31058 Susegana (TV) - ITALY	
<i>Product</i>	Two-component liquid membrane	
<i>Name</i>	BETONGUAINA.S	
<i>Required tests</i>	Fire classification of construction products and building elements	
<i>Standard reference</i>	UNI EN 13501-1:2009	
<i>Testing date</i>	28/11/2014	
<i>Testing method</i>	UNI EN ISO 11925-2:2010 - UNI EN ISO 9239-1:2010 <u>Used substrated:</u> fiber cement Specimens conditioned according to UNI EN 13238:2010	
<i>Test result</i>	see details on pages 2 and 3	
<i>Result</i>	Classification UNI EN 13501-1:2009	
	Fire Behaviour	Smoke production
	B_{fl}	s1
<i>Laboratory Technician</i>	Per. Ind. Maurizio Biagini	
<i>Technical Manager</i>	Dott. Ing. Sergio Tosi	

This test report refers only to the tested products and it can be reproduced only in its full version.

Order: letter of 31/10/14

Goods received on 10/11/14

Sampling performed by the Applicant



UNI EN ISO 11925-2:2010

Position: vertically lay on non-combustible building elements

Preparation: cl. 4.1.3 standard UNI EN 14041:2004

	Specimen	Flame application time								Aim 150 mm		Dripping	
		15 sec				30 sec							
		Trigger sample		Trigger paper		Trigger sample		Trigger paper		yes	no	yes	no
		yes	no	yes	no	yes	no	yes	no				
EXPOSED SIDE	1		X		X						X		X
	2		X		X						X		X
	3		X		X						X		X
	4		X		X						X		X
	5		X		X						X		X
	6		X		X						X		X
EXPOSED EDGE	1												
	2												
	3												
	4												
	5												
	6												

NOTE: The test results are related to the behavior of the test specimens of a product under the particular conditions of test; are not intended as the sole criterion for assessing the potential fire hazard of the product in its use.



UNI EN ISO 9239-1:2010

Preparation: cl. 4.1.3 standard UNI EN 14041:2004

	<i>Average value</i>	<i>Specimen 1</i>	<i>Specimen 2</i>	<i>Specimen 3</i>
Ignition time (sec)	195,0	193	215	177
Turn off time (sec)	919,0	723	1215	819
Extension flame (mm)	150,0	100	200	150
Critical off heat flux (kW/mq)	10,08	10,70	9,44	10,11
Heat flux HF-10 (kW/mq)	10,50	10,70	10,70	10,11
Heat flux HF-20 (kW/mq)	10,08	10,70	9,44	10,11
Heat flux HF-30 (kW/mq)	10,08	10,70	9,44	10,11
Development flame at 10 min (mm)	116,7	100	100	150
Development flame at 20 min (mm)	150,0	100	200	150
Development flame at 30 min (mm)	150,0	100	200	150
Max light attenuation measured (%)	2,80	1,32	4,40	2,69
Total fumes (% min)	21,4	3,95	42,70	17,42

mm	Specimen 1		Specimen 2		Specimen 3	
	Time (sec)	Flux (kW/mq)	Time (sec)	Flux (kW/mq)	Time (sec)	Flux (kW/mq)
60	281	11,2	349	11,2	287	11,2
110		10,6	694	10,6	457	10,6
160		10,0	804	10,0		10,0
210		9,3		9,3		9,3
260		8,4		8,4		8,4
310		7,5		7,5		7,5
360		6,3		6,3		6,3
410		5,3		5,3		5,3
460		4,5		4,5		4,5
510		3,6		3,6		3,6
560		3,1		3,1		3,1
610		2,6		2,6		2,6
660		2,3		2,3		2,3
710		2,0		2,0		2,0
760		1,8		1,8		1,8
810		1,5		1,5		1,5
860		1,3		1,3		1,3
910		1,2		1,2		1,2

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