

Expert Services

Determination of external fire exposure to roofing of according to CEN TS 1187:2012, Test 2

Requested by Donleon OÜ

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Product The customer gave the following information about the product:

Product name: **Bronya Aquablock NG** Manufacturer: OOO NPO "BRONYA"

Product description: Polymer waterproofing Bronya AquaBlock NG is designed for indoor and outdoor use and is applied to cement screed, concrete, metal, plastic, wood, or any other old waterproofing surfaces and other roofing materials in order to waterproof the foundation, walls, floors, balconies, roofs, inter panel joints, pools, tanks, etc.

Product composition:

Ceramic Hollow Microspheres (15%)(25%)Acrylic (Acryl) Corrosion Inhibitor (1 %) Silicon-Organic (Silicone) Modifier (1 %)Nitrile-acrylic additives (1%)Ammonium Polyphosphate (15%)(25%)Melamine Water (17%)

Typical dry film thickness: 1 - 3 mm

Spreading rate or mass per unit area: 1,0 - 1,2 kg/m²



The results are only valid for the tested sample(s). This report may be published in its entity, parts of it only with a written permission by Eurofins

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Sample The sample of the product was chosen by the customer.

Date of delivery: 20 September 2019

Type of sample: Ready-made specimens of product on fiber reinforced calcium silicate

board of density (680 \pm 50) kg/m³ and thickness (10 \pm 2) mm from Eurofins.

Customer gave the following information about the specimen:

Mass per unit area of product on substrates: 1,0 kg/m²

Test specimens Customer made six test specimens with dimensions of 400 mm x 1000 mm with the

following construction:

- Bronya Aquablock NG spread on,

- Calcium silicate board of density (680 ± 50) kg/m³ and thickness (10 ± 2) mm

The specimens were conditioned to constant mass at a temperature of 23 \pm 2 $^{\circ}\mathrm{C}$ and the

relative humidity of 50 ± 5 %.

Date of test 1 October 2019

Test method CEN TS 1187:2012, Test methods for external exposure to roofs - Test 2: Method with

burning brands and wind.

Test results Test results are presented in Appendix 1.

Note The results relate to the behaviour of the test specimen 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.

Eurofins Expert Services Ltd is a notified body 0809 concerning the Construction Products

Regulation (CPR).

Espoo, 8 October 2019

Jere Heikkinen Expert

Appendices Appendix 1 Test results

Distribution Customer Electronically approved



Appendix 1 1 (1)

TEST RESULTS

Product: Bronya Aquablock NG

Test method: CEN TS 1187:2012, Test 2

Substrate: fiber reinforced calcium silicate board

Table 1. Results of tests.

Wind velocity		2 m/s		4 m/s				
Test No.	1	2	3	Mean	1	2	3	Mean
Covering ignited, min:s	**	**	**	-	**	**	**	-
Flames extinguished, min:s	3:01	2:54	3:13	3:03	2:23	2:23	2:08	2:18
Glowing ended, min:s	7:22	7:16	8:13	7:37	5:10	5:26	5:23	5:20
Length of damage in membrane, mm*	64	66	61	64	78	68	71	72
Length of damage in substrate, mm*	0	0	0	0	0	0	0	0

^{*)} Measured from the middle of the ignition source



^{**)} No visible ignition