efekt
LABORATORIUM CHEMII BUDOWLANEJ

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1. Identification:

CUSTOMER: **Name and address**	**RIVER POWER s.r.o.** **702 00 Ostrava, ul. Hlubinska 1378/36** **Czech Republic**		**Order number, dated:** 1/13/8/18 of 14.08.2018
Name of the object: Description provided from the package	**Type of test sample / object (designation, name, type):** Description provided from the protocol		**Sample Code in the Laboratory:**
THERMOREFLUCTION COAT PSC-ECO			346/18
The purpose of the study:	Other		
Sampler:	**Method of sampling:**		**Date of acceptance of the test sample:**
The sample collected by the customer Mirosław Bryk	By the procedure Kabe Therm		14.08.2018
Information about the delivered object/ sample: quantity/ packaging/ date of production/ validity/ batch number/ possible comments	Sample size: 10 liter in the bucket. White paste.		
Method of sample preparation:	The coating for testing was prepared according to PN-C 81514: 1979 Application method - applicator / roller Number of layers - one / two Drying time - 7 and 14 days Substrate type - ceramic Dimension of test specimens 120x250 mm		
Date of start of the test:	20.08.2018	**Date of end of the test:**	22.09.2018
Laboratory conditions:	Temperature: 23±2 °C, humidity: 50±5 %		
Additional information:	* Measurement uncertainty was determined at the 95% confidence level and the k = 2 expansion factor **Standard deviation		

METHODS / TESTING PROCEDURES:

EN 1062-1: 2005 "Paints and varnishes. Paintwork and coating systems used outdoors for walls and concrete. Part 1: Classification."

2. Test results:

No.	Properties	Research standard	Test results						Mean value
2.1	Determination of gloss value at: ✓ 85° ✓ 60° ✓ 20°	EN ISO 2813:2014 „Paints and varnishes..Determination of gloss value at 85°, 60° and 20°."	0,0 2,1 0,6	0,0 1,9 0,9	0,0 2,0 1,1	0,0 0,6 0,6	0,0 1,3 0,9	0,0 1,7 1,0	**0,0** **1,6** **0,9**
2.2	Coating thickness, µm	point 5.3 EN 1062-1:2005	**74**						
2.3	Grain size - sieving on a sieve 100 µm, %	EN ISO 1524:2013-06 „Paints and varnishes. Determination of fineness of grind."	0,0			0,0			**0,0**
2.4	Water vapor transmission rate V, $g/m^2 \cdot d$	EN ISO 7783:2012 „Paints and varnishes. Determination of water-vapour transmission properties. Cup method."	16	16	15	18	16		**16±2***
	Diffusional equivalent thickness of the air layer Sd, m		**1,26**						
2.5	Capillary absorption and water permeability, $kg/m^2 \cdot h^{0,5}$	EN 1062-3:2008 „Paints and varnishes. Coating materials and coating systems for exterior masonry and concreto. Part 3: Determination of liquid water permeability."	0,01		0,01		0,01		**0,01±0,01***

CLASSIFICATION OF LIME PAINT ACCORDING TO EN 1062-1: 2005

Definition	
Determination according to the chemical nature of the film-forming substance	**Water dispersion of acrylic resin**
Determination according to the state of dissolution	**Waterborne**
Classification	
Gloss 85° ≤ 10 (Matt)	**G_3**
Coating thickness > 50 ≤ 100 µm	**E_2**
Grain size. (Small change). According to PN-EN ISO 1524:2002 (EN 21524) is to 100 µm	**S_1**
Water vapor transmission rate (Medium) ≤ 150 > 15 g/m^2·d	**V_2**
Water permeability (Short) ≤ 0,1 kg/m^2·h^{0,5}	**W_3**
Crack bridging properties	**Not tested**
Carbon dioxide permeability	**Not tested**

Code designation

PN-EN 1062-1	**G_3**	**E_2**	**S_1**	**V_2**	**W_3**	-	-

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Authorizing test results:: 24.09.18 Katarzyna Walusiak
Date, function, signature