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1. Identification:

CUSTOMER: Name and address		River Power, s.r.o. Hlubinská 1378/36, 702 00 Ostrava		Order number, dated: 5/22/2/23 of 22.02.2023	
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:	
Basic B PSC 250T Build Silicate thermoreflective paint PSC 250T ECO+ PSC Nanoshield				107/23 106/23 108/23 109/23	
Data provided by the ordering party	The purpose of the study:	Marking CE, periodic tests			
	Sampler:	Method of sampling:	Date of sampling:	Date of acceptance of the test sample:	
	The sample collected by the customer	PN-EN ISO 15558	08.03.2023	09.03.2023	
	Information about the delivered object/ sample: quantity/ packaging/ date of production/ validity/ batch number/ possible comments	Sample size: 100 – 200 g / replacement packaging			
Method of sample preparation:		The test coating was prepared in accordance with the manufacturer's description in the Technical Data Sheet. Number of layers: Basic B – one, consumption – 0,19 kg/ m ² PSC 250T Build – one (coatings thickness 1,0-1,5 mm) – consumption 0,74 kg/ m ² Farba PSC 250T ECO – two, consumption – 0,23 kg/ m ² PSC Nanoshield - one, consumption – 0,09 kg/ m ² Method of application – with a trowel and painting roll. Substrate type –silicate substrate, porous carrier Drying time – 28 day			
Date of start of the test:		15.03.2023	Date of end of the test:		19.05.2023
Laboratory conditions:		Temperature: 23±2 °C, humidity: 50±5 %			
Additional information:		-			

METHODS / TESTING PROCEDURES:

EN 1504-2:2006 „Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 1: Definitions

2. Test results:

No.	Properties	Research standard	Required value	Test results					Mean value	Statement of compliance		
										(reference document)	(the principle of making decisions - simple acceptance)	
2.1	Determination of abrasion resistance - Taber abrader abrasive wheel H22/ 1000 cycles/ load 1 000 g), mg	EN ISO 5470-1:2017-02	loss of weight less than 3 000	188	114	179			160 ± 40**	EN 1504-2:2004	Fulfills	
2.2	Impact resistance. Falling-weight test, Nm	EN ISO 6272-1:2011	No scratchers and detachments Class I ≥ 4 Nm Class II ≥ 10 Nm Class III ≥ 20 Nm	3	4	4			4	EN 1504-2:2004	Fulfills for Class 1	
2.3	Load on failure, N	PN-EN 1542:2000	Systems with crack-bridging ability or flexible	Inflexible systems	1013	1174	1078	1092	1114	0,6 ± 0,1*	EN 1504-2:2004	Fulfill systems with crack-bridging ability or flexible No load for the smallest allowable values of single measurements
	Adhesion to steel substrate, N/mm ²		no load ≥ 0,8 (0,5) ^b	No load ≥ 1,0 (0,7)	0,52	0,60	0,55	0,56	0,57			
	Failure type		Loaded ≥ 1,5 (1,0)	Loaded ≥ 2,0 (1,5)	B ^{1/}	B	B	B	B			

^{b/} in brackets given the smallest allowable values of single measurements
^{1/} B - cohesive failure in the first layer

Uncertainty Information:		* Measurement uncertainty was determined at the 95% confidence level and the k = 2 expansion factor ** Standard deviation	
Developing test results: Date, function, signature	Mariusz Wroński Zabrze, of 26.05.2023	Authorizing test results: Date, function, signature	Katarzyna Walusiak Zabrze, of 26.05.2023
The test results refer only to the tested samples. The uncertainty of the result does not include the uncertainty of sampling. Without the written consent of the Laboratory Manager The test report may not be reproduced otherwise than in its entirety.			

The end of report