



LABORATORIUM CHEMII BUDOWLANEJ EFEKT Sp. z o. o.
41-800 Zabrze, ul. Kasprowicza 5
tel. 696 087 423, email: kwalsiak@op.pl <http://www.efekt-zabrze.pl>

1. Identification:		Order number, dated:	
CUSTOMER: Name and address		1/6/3/24 of 06.03.2024	
Name of the object: Description provided from the package		Sample Code in the Laboratory:	
River Power, s.r.o. Hlubinská 1378/36, 702 00 Ostrava		107/24	
Type of test sample / object (designation, name, type): Description provided from the protocol		Exterior plaster PSC FO	
The purpose of the study:		Initial type test (ITT)	
Sampler:		Method of sampling:	
The sample collected by the customer		PN-EN 1015-2	
Information about the delivered object/ sample: quantity/ packaging/ date of production/ validity/ batch number/ possible comments		Date of sampling:	
20 kg/ bucket (replacement packaging) Sample production date/ expiry date / batch number: 29.02.2024/ Nr 1/2024 – PSC FO		29.02.2024	
Method of sample preparation:		Date of acceptance of the test sample:	
PN-EN 1015-2:2000, PN-EN 1015-2:2000/A1:2007 Water to mortar ratio according to producers recommendation on package: 0,32 l/ 1 kg		04.04.2024	
Date of start of the test:		Date of end of the test:	
10.04.2024		18.06.2024	
Laboratory conditions:		Temperature: 23±2 °C, humidity: 50±5 %	
Additional information:		None	

METHODS / TESTING PROCEDURES:
EN 998-1:2016-12 „Specification For Mortar For Masonry. Part 1: Rendering And Plastering Mortar”

2. Test result:

No.	Properties	Research standard	Required value	Test Results		Average value	Declaration of conformity	
							(reference document)	(the principle of decision-making - simple acceptance - without taking into account the value of uncertainty of results)
2.1	Bulk density of fresh mortar [kg/m ³]	EN 1015-6	Declared value	1150	1150	1150 ± 10**	EN 998-1:2016	Declared value
2.2	Air content of fresh mortar [%]	EN 1015-7	Declared value	26	26	26	EN 998-1:2016 WTA 2-9-20/D	Declared value
2.3	Workable life of fresh mortar [min]	EN 1015-9	Declared value	> 360	> 360	> 360	EN 998-1:2016	Declared value

2. Test result:

No.	Properties	Research Standard	Required value	Test Results					Average value	Declaration of conformity		
				(reference document)	(the principle of decision-making - simple acceptance - without taking into account the value of uncertainty of results)							
2.4	Dry bulk density of hardened mortar [kg/m ³]	EN 1015-10	Declared value	970	980	970	1000	930	960	970 ± 30**	EN 998-1:2016 WTA 2-9-20/D	Declared value
2.5	Adhesive strength of hardened rendering and plastering mortars on substrates [N/mm ²], (FP)	EN 1015-12	Declared value	0,40	0,35	0,35	0,35	0,35	0,4 ± 0,1* FP: b	EN 998-1:2016	Declared value	
				Cohesive break in mortar								
2.6	Water vapour permeability of hardened rendering and plastering mortars μ	EN 1015-19	≤ 15	for KNO ₃					11,6	EN 998-1:2016	Fulfills	
				for LiCl					14,6			
2.7	Thermal conductivity coefficient λ [W/(m·K)]	Table A.12 EN 1745 (P=50%)	Tabular value	for density 1000 [kg/m ³]					0,25	EN 998-1:2016	Tabular value	
				for density 1200 [kg/m ³]					0,33			
				for density 1400 [kg/m ³]					0,45			
2.8	Reaction to fire	EN 13501-1	Declared value	< 1,0 [%] organic materials without the need for testing.					A1	EN 998-1:2016	Declared value	

2. Test result:

No.	Properties	Research standard	Required value	Test Results										Average value	Declaration of conformity	
				After 10 cycles the bars were starting to crush											(reference document)	(the principle of decision-making - simple acceptance - without taking into account the value of uncertainty of results)
2.9.1	Macroscopic evaluation:		No requirements											EN 998 -1:2016	No requirements	
	Durability. Weight of samples before freezing [g]	PN-B-04500:1985		247,9	250,4	249,4	256,9	237,7	246,2	4,59	EN 998 -1:2016	Declared value				
Durability. Weight of samples after freezing [g]	231,0		241,6	239,4	242,2	230,4	235,3									
2.9.2	Decrease in mass [%]		Declared value	6,82	3,51	4,01	5,72	3,07	4,43	4,59	EN 998 -1:2016	Declared value				
	Durability. Flexural strength of non-frozen samples [N/mm ²]	PN-B-04500:1985		1,71	1,58	1,20	1,34	1,71	1,58							
				Durability. Flexural strength of frozen samples [N/mm ²]	0,94	1,45	1,36	0,93	1,39				1,31			
				Decrease in flexural strength [%]		Declared value		20,39								
2.9.4	Durability. Compressive strength of non-frozen samples [N/mm ²]	PN-B-04500:1985	2,97	3,04	3,12	3,26	3,48	3,21	3,15	EN 998 -1:2016	Declared value					
			3,39	3,04	3,44	3,31	2,79	2,69								
			3,00	2,94	2,30	2,26	2,24	2,81								
	Durability. Compressive strength of frozen samples [N/mm ²]	Declared value	2,97	2,73	2,11	2,08	2,27	1,94	2,47							
			Decrease in compressive strength [%]		Declared value		21,59									

Uncertainty information: * Measurement uncertainty was determined at the 95% confidence level and the k = 2 expansion factor
**Standard deviation

18.06.2024
Developed:
(date, function, signature)
SPECJALISTA
ds. Badania
Mariusz Wroński

18.06.2024
Authorized:
(date, function, signature)
KIEROWNIK LABORATORIUM
Katarzyna Halaśiak

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