CLASSIFICATION no. EKW/2/3/2023 of 08.03.2023

LABORATORIUM CHEMII BUDOWLANEJ EFEKT Sp. z o. o.
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1. Identyfication:

CUSTOMER: **Name and address**		**KOFARB Sp. z o.o.** **ul. Jagiellońska 85-87** **42-200 Częstochowa**		**Order number, dated:** 1/28/2/23 of 28.02.2023
Name of the sample/object: ~~Description provided from the package~~		**Type of test sample / object (designation, name, type):** Description provided from the protocol		**Sample Code in the Laboratory:**
KOFATERM OUTDOOR PAINT				K/2/3/23
Data provided by the customer	**The purpose of the test:**	Classification based on standard PN-EN 1062-1:2005		
	Sampler:	**Method of sampling:**	**Date of sampling:**	**Date of acceptance of the test sample:**
	The sample collected by the customer	Not applicable	Not applicable	Not applicable
	Information about the delivered object/ sample: quantity/ packaging/ date of production/ validity/ batch number/ possible comments	Sample production date: 2023.01.04		
Additional information:		No additional information		

CLASSIFICATION OF DISPERSION BASED ON STANDARD PN-EN 1062-1:2005 „Paints and varnishes – Coating materials and coating systems for exterior masonry and concreto – Part 1: Classification" based on test results provided by external supplier. Atest no. 02/2022

2. Classification:

2.1	Classification by chemical type of binder	PN-EN 1062-1:2005 p. 4.1	**(Co)polimer dispersion**
2.2	Classification by dissolution or dispersion of binder in varnish	PN-EN 1062-1:2005 p. 4.2	**Water-soluble**

3. General classification:

No.	Properties	Research standard	Required value	Test results (average value)	Statement of compliance	
					(reference document)	(decision-making principle – simple acceptance – without taking into account the uncertainty of the results)
3.1	Gloss marked at the angle of incidence, GU: 20° 60° 85°	PN-EN 1062-1:2005 p. 5.2	*For angle of incidence – reflectance* *85° < 10*	- - **4**	PN-EN 1062-1:2005 Table 1	***Category G_3*** ***Matt***
3.2	Coating thickness, µm	PN-EN 1062-1:2005 p. 5.3	*Category E_1 < 50* *Category E_2 > 50 ≤ 100* *Category E_3 >100 ≤ 200* *Category E_4 >200 ≤ 400* *Category E_5 > 500*	- for R_B/R_W 99,5: **316 µm**, category **E_4** - for R_B/R_W 98,0: **180 µm**, category **E_3** - for R_B/R_W 95: **140 µm**, category **E_3**	PN-EN 1062-1:2005 Table 2	***Category E_3 i E_4***
3.3	Grain size, %	PN-EN 1062-1:2005 p. 5.4	*Marked on sieve 100 µm*	**95 µm**	PN-EN 1062-1:2005 Table 3	***Category S_1*** ***Fine granulation***

3. General classification, cd:

No.	*Properties*	*Research standard*	*Required value*	*Test results (average value)*	*Statement of compliance*	
					(reference document)	*(decision-making principle – simple acceptance – without taking into account the uncertainty of the results)*
3.4	Water vapour transmission coefficient through the free coating, V, g/m^2 ·d	PN-EN 1062-1:2005 p. 5.5	*Category V_1 >150* *Category V_2 (15 – 150)* *Category V_3 ≤ 15*	**28 ± 4**** (for an average coating thickness: 100 µm) **12 ± 0,2**** (for an average coating thickness: 500 µm)	PN-EN 1062-1:2005 Table 4	***Category V_2*** ***Medium***
	Diffusion-equivalent air layer thickness Sd, m		*Category V_1 < 0,14* *Category V_2* *(≥0,14 < 1,4)* *Category V_3 ≥ 1,4*	**0,93 ± 0,04**** (for an average coating thickness: 100 µm) (1,7 ± 0,1**) (for an average coating thickness: 500 µm)		
	Relative diffusion resistance coefficient, µ			**3200 ± 50**** (dimensionless quantity)		
3.5	Water permeability, kg/m^2 · h^{0,5}	PN-EN 1062-1:2005 p. 5.6	*Category W_1 > 0,5* *Category W_2 ≤ 0,5>0,1* *Category W_3 ≤ 0,1*	**0,030 ± 0,001**** (for an average coating thickness: 280÷310 µm) Daily water permeability: **0,090 ± 0,006** kg/m^2**	PN-EN 1062-1:2005 Table 5	***Category W_3*** ***Weak***

3. General classification, cd:

No.	Properties	Research standard	Required value	Test results (average value)	Statement of compliance	
					(reference document)	(decision-making principle – simple acceptance – without taking into account the uncertainty of the results)
3.6	Crack bridging, method A, µm	PN-EN 1062-1:2005 p. 5.7	Table 6 *PN-EN 1062-1:2005 Crack bridging categories : $A_0 \pm A_5$ $A_4 > 1250$*	**> 1400**	PN-EN 1062-1:2005 Table 6	***Category A_4***
3.7	Carbon dioxide permeability (CO_2), $g/m^2 \cdot 24h$	PN-EN 1062-1:2005 p. 5.8	*C_0 - no requirements $C_1 < 5$*	**4,3** (for an average coating thickness: 210 µm)	PN-EN 1062-1:2005 Table 7	***Category C_1***
	Relative diffusion resistance Sd, m		*C_0 - no requirements $C_1 > 50$*	**55**		

Code designation

PN-EN 1062-1	G_3	E_3, E_4	S_1	V_2	W_3	A_4	C_1

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

Developed: (date, function, signature)	08.03.2023 SPECJALISTA ds. Badań Mariusz Wroński	**Approved:** (date, function, signature)	08.03.2023 KIEROWNIK LABORATORIUM Katarzyna Walusiak

The end of classification report