CLASSIFICATION no. EKW/4/3/2023 of 08.03.2023

efekt
LABORATORIUM CHEMII BUDOWLANEJ

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1. Identification:

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 PASTE				K/4/3/23
Data provided by the customer	**The purpose of the test:**	Classification based on standard PN-EN 1062-1:2005		
	Sampler:	**Method of sampling:**		**Sampler:**
	The sample collected by the customer	Not applicable		The sample collected by the customer
	Information about the delivered object/ sample: quantity/ packaging/ date of production/ validity/ batch number/ possible comments	Sample production date: 2023.01.12		
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. 04/2022

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*	- - 3	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: **218 µm**, category **E_4** - for R_B/R_W 98,0: **154 µm**, category **E_3** - for R_B/R_W 95: **70 µm**, category **E_2**	PN-EN 1062-1:2005 Table 2	***Category E_2, E_3 i E_4***
3.3	Grain size, %	PN-EN 1062-1:2005 p. 5.4	*Marked on sieve 100 µm*	**97 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*	**20 ± 1**** (for coating thickness: 480 µm) **19,2 ± 0,2**** (calculated for an average coating thickness: 500 µm) **19 ± 2****	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*	**0,88 ± 0,04**** (for coating thickness: 480 µm) (0,92 ± 0,03**) (for an average coating thickness: 500 µm)		
	Relative diffusion resistance coefficient, µ			**1840 ± 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*	po 12h **0,027 ± 0,007**** po 24h **0,011 ± 0,006**** (for an average coating thickness: 300÷380 µm) Daily water permeability: **0,070 ± 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 : $A_0 \pm A_5$ $A_4 > 1250$*	**> 2200**	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 $C_1 < 5$*	**43** (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 $C_1 > 50$*	**105**		

Code designation

PN-EN 1062-1	**G_3**	**E_2, E_3 i 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 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 classification report