

 Łukasiewicz Institute of Polymer Materials	ŁUKASIEWICZ RESEARCH NETWORK INSTITUTE OF POLYMER MATERIALS 87-100 Toruń ul. M. Skłodowskiej-Curie 55
  AB 163	Paint and Plastics Centre 44 – 100 Gliwice ul. Chorzowska 50 A Research Laboratory of Coating Materials

Test Report No. GF/166/2026

Case No. GF.4120.127.2026

Type of test	Test subject	Name and address of the Client
Cross-cut test acc. to. PN-EN ISO 2409:2021-03	Paint systems on plasterboard panel	ADR System Anna Wosińska Św. Ducha 60 63-200 Jarocin

SAMPLE		TESTS	
No.	Acceptance	Beginning	End
GF/166/2026	14.07.2026	14.07.2026	29.07.2026

Performer:

Kinga Krawczyk
/Full name/

Kinga Krawczyk
/Sign/

Report performed by:

Kinga Krawczyk
/Full name/

30.07.2026 *Kinga Krawczyk*
/Date, Sign/

Copies:
- Client
- GF

Authorized by:
Maria Opuchlik
/Full name/

30.07.2026 *Maria Opuchlik*
/Date, Sign/

Accepted by:

KIEROWNIK
Laboratorium Badawcze
Wyrobow Lakierowych
30.07.2026 *Grażyna Kamińska-Bach*
mgr. inż. Grażyna Kamińska-Bach
/Stamp, Date, Sign/

Test results apply only to tested sample received from the Client. Test Report cannot be copied differently than in the whole form without written permission of Research Laboratory of Coating Materials

Wz-44/XIV z dn. 12.05.2025

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1. Sample description:

Information regarding the sample provided by the Client has been underlined.

The Client delivered paint systems applied on plasterboard panels for testing. The samples were characterised as follows:

Paint systems on plasterboard panel:

Samples prepared on 1 July 2026. Applied with a roller.

Interval between layers: 12 hours.

Primer: Jedynka Śnieżnobiała paint (PPG Deco Polska Sp. z o.o.), a matt vinyl emulsion which acts as a primer. The manufacturer also specifies the product for use as a primer; no separate primer was used. In sample no. 2, no primer was used — the impregnant was applied directly to the plasterboard panel.

Paint: Jedynka Śnieżnobiała (PPG Deco Polska Sp. z o.o.), a matt vinyl emulsion.

Impregnant: 80 g ADR SOL Walls dissolved in 1 litre of water.

1) One layer of primer / One layer of paint – control sample – 1 plate measuring 200 x 200 mm – the sample was assigned the number GF/166/1/2026,

2) One layer of impregnant/ Two layers of paint – 1 plate measuring 200 x 200 mm – the sample was assigned the number GF/166/2/2026,

3) One layer of primer / One layer of paint / One layer of impregnant / One layer of paint – 1 plate measuring 200 x 200 mm – the sample was assigned the number GF/166/3/2026,

4) One layer of primer / One layer of paint / One layer of impregnant – 1 plate measuring 200 x 200 mm – the sample was assigned the number GF/166/4/2026.

Additional arrangements for the test performance:

- The Client prepares the test samples
- No measurement of the paint system thickness
- Client's declaration regarding the paint system thickness (for selecting the cut spacing in accordance with the standard)

Data provided by the Client regarding the paint system thickness:

<u>Paint system</u>	<u>Total thickness [μm]</u>
<u>1. One layer of primer / One layer of paint – control sample</u>	<u>≤ 70</u>
<u>2. One layer of impregnant / Two layers of paint</u>	<u>≤ 75</u>
<u>3. One layer of primer / One layer of paint / One layer of impregnant / One layer of paint</u>	<u>≤ 110</u>
<u>4. One layer of primer / One layer of paint / One layer of impregnant</u>	<u>≤ 75</u>

A spacing of 2 mm between the incisions was agreed for each sample.

- Assessment without a magnifying glass
- Removal of loose coating – tape
- The standard conditioning time for interior paint coatings was applied – a minimum of 28 days from the date of application, i.e. 1 July 2026

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2. Test description:

1. Cross-cut test	
PN-EN ISO 2409:2021-03	
<i>Paints and varnishes -- Cross-cut test</i>	
Sample No.	GF/166/1-4/2026
Date and conditions of conditioning of samples before test	14-29.07.2026, T= (23 ± 2) °C; RH = (50 ± 5) %
Type of cutting tool used	1c - cutter with rigid blade with V-shaped cutting edge
Method used to remove loose coating	Tape TESA 4126
Visual evaluation without a magnifying glass.	
Test date	29.07.2026

The assessment of the coating's appearance was carried out under lighting conditions consistent with PN-EN ISO 13076:2020-03 *Paints and varnishes - Lighting and procedure for visual assessments of coatings*

3. Test results:

The information provided by the Client influences the results obtained.

Table 1. Summary of the results of the cross-cut test method.									
Sample No.	Test method	Status of method /*	Results						
GF/166/1/2026	PN-EN ISO 2409:2021-03	A	1.	1c-1	2.	1c-1	3.	1c-1	
GF/166/2/2026			1.	1c-1	2.	1c-2	3.	1c-1	
GF/166/3/2026			1.	1c-2	2.	1c-2	3.	1c-3	
GF/166/4/2026			1.	1c-1	2.	1c-1	3.	1c-2	

Status of method /*: A – the method covered by the scope of accreditation

Explanation:

1c - cutter with rigid blade with V-shaped cutting edge

Classification:

1 – Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut area not greater than 5 % is affected.

2 – The coating has flaked along the edges and/or at the intersections of the cuts. A cross-cut area greater than 5 %, but not greater than 15 %, is affected.

3 – The coating has flaked along the edges of the cuts partly or wholly in large ribbons, and/or it has flaked partly or wholly on different parts of the squares. A cross-cut area greater than 15%, but not greater than 35%, is affected.

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Research Laboratory of Coating Materials

Test Report No. GF/166/2026
 of 30.07.2026

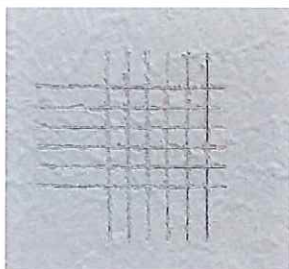
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Cross-cut test

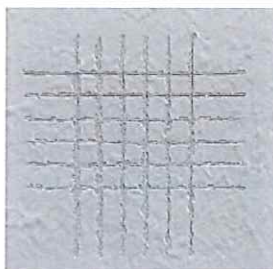
One layer of primer / One layer of paint – control sample

Sample No. GF/166/1/2026

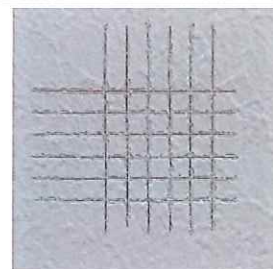
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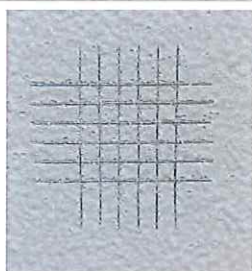
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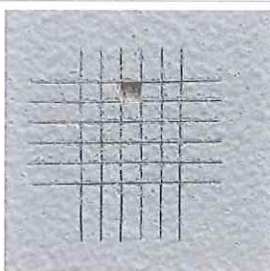
One layer of impregnant / Two layers of paint

Sample No. GF/166/2/2026

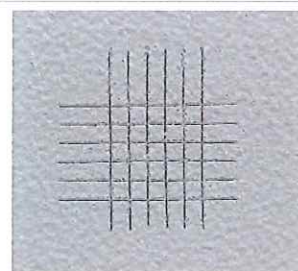
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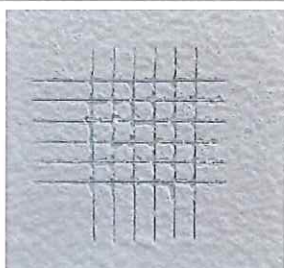
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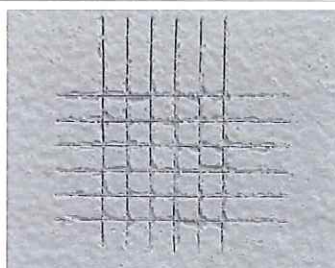
One layer of primer / One layer of paint / One layer of impregnant / One layer of paint

Sample No. GF/166/3/2026

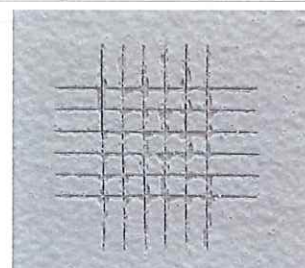
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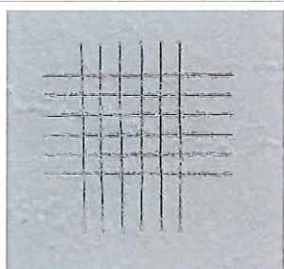
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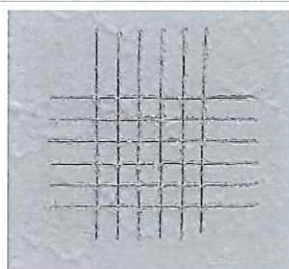
One layer of primer / One layer of paint / One layer of impregnant

Sample No. GF/166/4/2026

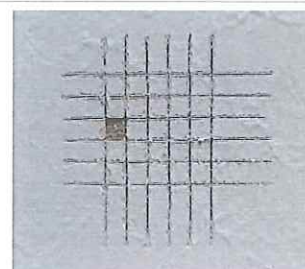
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End of Report

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