

**The Appendix is an integral part of
Certificate of Accreditation No: 60/2024 of 07/02/2024**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

SYNPO, akciová společnost
CAB number 1105.2, Analysis and Testing Services
S. K. Neumanna 1316, 532 07 Pardubice – Zelené Předměstí

Testing laboratory locations:

1. **Department for the Evaluation of Surface Coatings** S. K. Neumanna 1316, 532 07
Pardubice – Zelené Předměstí
2. **Department for the Evaluation of Physical Properties of Materials**
S. K. Neumanna 1316, 532 07
Pardubice – Zelené Předměstí

The laboratory applies a flexible approach to the scope of accreditation.

*The current list of activities carried out within the flexible scope is publicly available:
<https://www.synpo.cz/zkusebnictvi-a-hodnoceni> in the form „List of activities within the flexible scope of accreditation“.*

The laboratory provides opinions and interpretations of the test results.

1. Department for the Evaluation of Surface Coatings

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of the degree of degradation of coatings	APP 1 (ČSN EN ISO 4628-1; ČSN EN ISO 4628-2; ČSN EN ISO 4628-3; ČSN EN ISO 4628-4; ČSN EN ISO 4628-5; ČSN EN ISO 4628-6; ČSN EN ISO 4628-8; ČSN EN ISO 4628-10; ASTM D714; ASTM D1654; ASTM D610; ČSN EN ISO 10289)	Paints and varnishes, metallic and other inorganic coatings	-
2	Exposure to laboratory light - Xenon-arc lamps	APP2 (ČSN EN ISO 4892-1; ČSN EN ISO 4892-2; ČSN EN ISO 16474-1; ČSN EN ISO 16474-2; PV 3930; PV 3929; ASTM D2565)	Plastics, paints, coating materials, textile materials, non-metallic materials	D
3*	Determination of coating thickness	ČSN EN ISO 2808, procedure 1A, 4A, 4B, 6A, 7B.2, 7C; ČSN EN ISO 2178	Paints and varnishes, inorganic, metallic and other coatings	-
4	Surface roughness measurement (Ra, Rz, Ry, Rq)	ČSN EN ISO 4287:1999; ČSN EN ISO 4288:1999; ČSN EN ISO 21920-2; ČSN EN ISO 21920-3	Surfaces of plastics, coatings and metal materials	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
5*	Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°	ČSN EN ISO 2813	Paints and varnishes, plastics	-
6	Colorimetric determination of colour differences	ASTM E1347	Paints and varnishes	D
7	Determination of resistance to salt spray	ČSN EN ISO 9227; ASTM B117	Paints and varnishes, metallic and other inorganic coatings	-
8	Determination of resistance to cyclic corrosion conditions - Wet (salt fog)/dry/humidity	ČSN EN ISO 11997-1	Paints and varnishes, metallic and other inorganic coatings	-
9	Determination of resistance of protective coating systems to cyclic corrosion conditions- Wet (salt fog)/dry/humidity/UV radiations	ČSN EN ISO 12 944-9; ČSN EN ISO 12 944-6; TKP-19.B.P9.4	Protective coating systems of steel constructions, paints and varnishes, metallic and other inorganic coatings	-
10	Cyclic corrosion test	PV 1210; PV 1209; PV 1200; PV 2005 method A	Paints and varnishes, metallic and other inorganic coatings	D
11	Determination of resistance to UV exposure	ČSN EN ISO 4892-1; ČSN EN ISO 4892-3; ČSN EN ISO 16474-1; ČSN EN ISO 16474-3; ASTM G154	Paints and varnishes, coated surfaces, coating materials and coating systems for wood, masonry and concrete, plastics, non-metallic materials	D
12	Determination of resistance to humid atmospheres containing sulfur dioxide	ČSN EN ISO 3231:1998; ČSN ISO 6988:1994; DIN 50018; ČSN EN ISO 22479	Paints and varnishes, metallic and other inorganic coatings	-
13	Determination of resistance in artificial atmospheres - humidity resistance	ČSN EN ISO 6270-1; ČSN EN ISO 6270-2; ČSN EN 13523-27	Paints and varnishes, metallic and other inorganic coatings	-
14	Determination of resistance by climatic tests - single-phase and multiphase tests	APP 14 (ČSN EN ISO 9227; ČSN EN ISO 6270-2; ČSN EN ISO 3231; ČSN EN ISO 4892-3; ČSN EN ISO 2812-1; ČSN EN 60068-2-52; ČSN EN 60068-2-1; ČSN EN 60068-2-2; ČSN EN 60068-2-14; ČSN EN 60068-2-78;	Paints, protective varnishes, plastics, coated surfaces, metallic and other inorganic materials, non-metallic materials	D

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		ČSN EN ISO 16474-2; ČSN EN ISO 4892-2)		
15	Determination of stone-chip resistance of coatings	ČSN EN ISO 20567-1; SAE J400, method C	Paints and varnished	-
16*	Cross-cut test	ČSN EN ISO 2409; ČSN EN ISO 16276-2; ASTM D3359	Paints and varnishes, metallic and other inorganic coatings, non- metallic materials	-
17	Adhesion test	ČSN EN ISO 2819 method 4.12	Paints and varnishes, metallic and other inorganic coatings, non- metallic materials	-
18*	Pull-off test for adhesion	ČSN EN ISO 4624	Paints and varnishes; coated surfaces, sealants, coating materials for masonry and concrete	-
19	Determination of water-vapour transmission rate	ČSN EN ISO 7783	Paints and coatings, coating materials and systems for exterior masonry and concrete	-
20	Determination of abrasion resistance - Taber abrader	ČSN EN ISO 5470-1; ČSN EN ISO 7784-2; ASTM D4060	Plastics, textiles and coated plastics, plastic coatings, films for concrete	-
21*	Determination of film hardness by pencil test	ČSN EN ISO 15184; ASTM D3363	Paints and varnishes, metallic and other inorganic coatings	-
22	Determination of scratch resistance	ČSN EN ISO 1518-1	Paints and varnishes	-
23	Bend test (cylindrical mandrel)	ČSN EN ISO 1519	Paints and varnishes	-
24	Pendulum damping test	ČSN EN ISO 1522	Paints and varnishes	-
25	Determination of resistance to testing liquids	APP 25 (ČSN EN ISO 2812-1; ČSN EN ISO 2812-3; ČSN EN ISO 2812-4, method A)	Paints and varnishes	D
26	Determination of liquid water permeability	ČSN EN 1062-3; ČSN EN 927-5	Coating materials and systems for masonry, concrete and wood	-
27	Determination of wet-scrub resistance and cleanability of coatings	ČSN EN ISO 11998	Paints and varnishes	-
28	Determination of resistance to liquids - Water immersion method	ČSN EN ISO 2812-2	Paints and varnishes	-

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- ¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises
- ² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- ³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

2. Department for the Evaluation of Physical Properties of Materials

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of tensile properties	ČSN EN ISO 527-1, except chap. 10.4; ČSN EN ISO 527-2; ČSN EN ISO 527-3; ČSN EN ISO 527-4; ČSN EN ISO 527-5	Plastics, composites	A, B, D
2	Determination of compressive properties	ČSN EN ISO 604, except chap. 10.3	Plastics	A, B, D
3	Determination of flexural properties	ČSN EN ISO 178; ČSN EN ISO 11296-4 annex B; ČSN EN ISO 14125 method A	Plastics, fibre-reinforced plastic composites	A, B, D
4	Determination of impact strength by CHARPY method, except notch impact strength	ČSN EN ISO 179-1	Plastics	-
5	Determination of properties by means of DSC analysis	APP 5 (ČSN EN ISO 11357-1; ČSN EN ISO 11357-2; ČSN EN ISO 11357-3; ČSN EN ISO 11357-5; ČSN EN 12614; ASTM E794; ISO 19935-1; ISO 19935-2; ISO 19935-3)	Plastics	A, D
6	Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies	ČSN EN 1465; ISO 4587	Adhesives	A, B, D
7	Determination of the effects of immersion in liquid chemicals, including water	ČSN EN ISO 175, except chap. 5.5.1.3	Plastics	A, B, D
8	Determination of water absorption	ČSN EN ISO 62	Plastics	A, B, D
9	Determination of changes in mass by thermogravimetry	ČSN EN ISO 11358-1	Polymers	A

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
10	Determination of indentation hardness by means of a durometer (SHORE hardness)	ČSN EN ISO 868	Plastics, sealants, rubbers	-
11	Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR)	ČSN EN ISO 1133-1; ČSN EN ISO 1133-2	Plastics	-
12	50 W horizontal and vertical flame test	ČSN EN 60695-11-10 ed. 2	Materials used in electrical equipment, plastics, polymers, composites.	A, B, D
13	Bond strength test by pull-off	ČSN 73 2577; ČSN EN 1542	Paints and coatings, surface treatments, sealants, polyurethane foams, coating materials for masonry and concrete.	A, B, D
14	Test of thermal compatibility – frost resistance	ČSN 73 2579	Coated surfaces, paints and coating systems for concrete and masonry, sealants.	A, B, D
15	Peel test for a flexible-bonded-to-rigid test specimen assembly	ČSN EN 28510-1; ČSN EN ISO 8510-2; ČSN EN ISO 22631	Adhesives	A, B, D

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² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

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Explanations:

APP	internal identification of the Testing Laboratory SYNPO, akciová společnost, Analysis and Testing Services
TKP	Technical Quality Conditions issued by the Ministry of Transport of the Czech Republic
PV	PrüfVorschrift, VolksWagen Test Specification
SAE	American Technical Standard - Society of Automotive Engineers
ASTM	American Society for Testing and Materials
DIN	Deutsche Industrie Norm
DSC	Differential Scanning Calorimetry