



Test report no.: K-K-25-11742

Number of pages: 8
Order No.: K-K-25-11742
Contracting authority: ALPHA CZECH s.r.o.
Mr. Pyšný
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Laboratory – location testing:
Address: GRADUS, a.s.
Husova 121
CZ 281 26 Týnec nad Labem

Protocol prepared by: Ing. Marek Schiller

Subject of testing: Your order e-mail dated 23.05.25 based on
our price quote no. 4123 dated 13.05.25
Part*: Alpha Color / Alpha Build 4 pcs

Test name: Determination of resistance under UV lamps

Test according to: AZP-13 (ČSN EN ISO 4892-3)

Test name: Determination of mirror gloss of coatings

Test according to: ČSN ISO 2813

Test name: Colorimetric determination of color differences

Test according to: AZP-11 (ČSN EN ISO/CIE 11664-4)

Base material*: fiber cement board
Coating characteristics*: roller coating, interior paint / paint
water-soluble facade paint
Sampling method: samples taken by the client, testing concerns
samples supplied by the customer, samples were tested as received
Sample preparation: stored under laboratory conditions
Coating thickness (DFT): according to ČSN EN ISO 2808 – method 4B – determination
depth measurement – type 2 dial indicator (non-accredited test
procedure)
Testing equipment: QUV/SPRAY/RP chamber – Q-lab corporation,
USA,
Test lamps used: fluorescent UV lamps type 1A – UVA 340
Test cycle: method A test cycle 1



3) °C Test equipment:
equipment:
conditions:

8 hours of exposure at a temperature of $(60 \pm 3) ^\circ\text{C}$, radiation intensity $0.76 \text{ Wm}^{-2} \times \text{nm}^{-1}$
4 hours of condensation without exposure at a temperature of $(50 \pm 3) ^\circ\text{C}$
BYK micro tri gloss gloss meter, Byk – Gardner GmbH Test
BYK-mac i23 colorimeter, Byk Gardner GmbH Measurement
D65/10° illumination, without included gloss

Date of sample collection: May 23
Test date: 09.06.25 – 31.08.25

Test results

Determining the thickness of the dry coating layer

Sample number of sample	Sample Sample	Ø DFT	Minimum value	Maximum value	Expanded uncertainty U
11742-1	-	259	230	270	-
11742-2	-	220	210	230	-
11742-3	-	217	200	235	-
11742-4	-	234	205	255	-

Measured thickness values for individual samples

11742-1	260	265	270	265	255	250	230	260	270	265
11742-2	210	215	220	215	220	220	220	225	225	230
11742-3	240	225	235	225	200	205	210	205	210	215
11742-4	205	210	250	255	220	225	250	260	230	235

Coating gloss measurement

Sample	Gloss before exposure [GU]		
	20	60°	85°
11742-1	1.2	2.2	0.8
11742-2	1.2	2.3	0.8
11742-3	1.2	2.3	0.8
11742-4	1.2	2.2	0.8

Sample	Gloss after 500 h exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11742-3	1.2	2.2	0.8
11742-4	1.2	2.2	0.8

Sample	Gloss after 1000 h exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11742-3	1.2	2.2	0.8
11742-4	1.2	2.2	0.8



Sample	Gloss after 1500 hours of exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11742-3	1.2	2.1	0.8
11742-4	1.2	2.2	0.8

Sample	Gloss after 2000 hours of exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11742-3	1.2	2.1	0.8
11742-4	1.2	2.1	0.8

Color coordinate measurement

Sample	Color coordinates			Color Deviation
	L	a	b	ΔE
11742	95.27	-0.32	3.54	-

Sample	Deviations in color coordinates after 500 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	ΔL	Δa	Δb	ΔE
11742-3	-0.05	0.02	-0.03	0.06
11742-4	-0.09	0.03	-0.06	0.11

Sample	Deviations in color coordinates after 1000 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	ΔL	Δa	Δb	ΔE
11742-3	-0.32	-0.07	-0.3	0.45
11742-4	-0.29	-0.09	-0.31	0.43

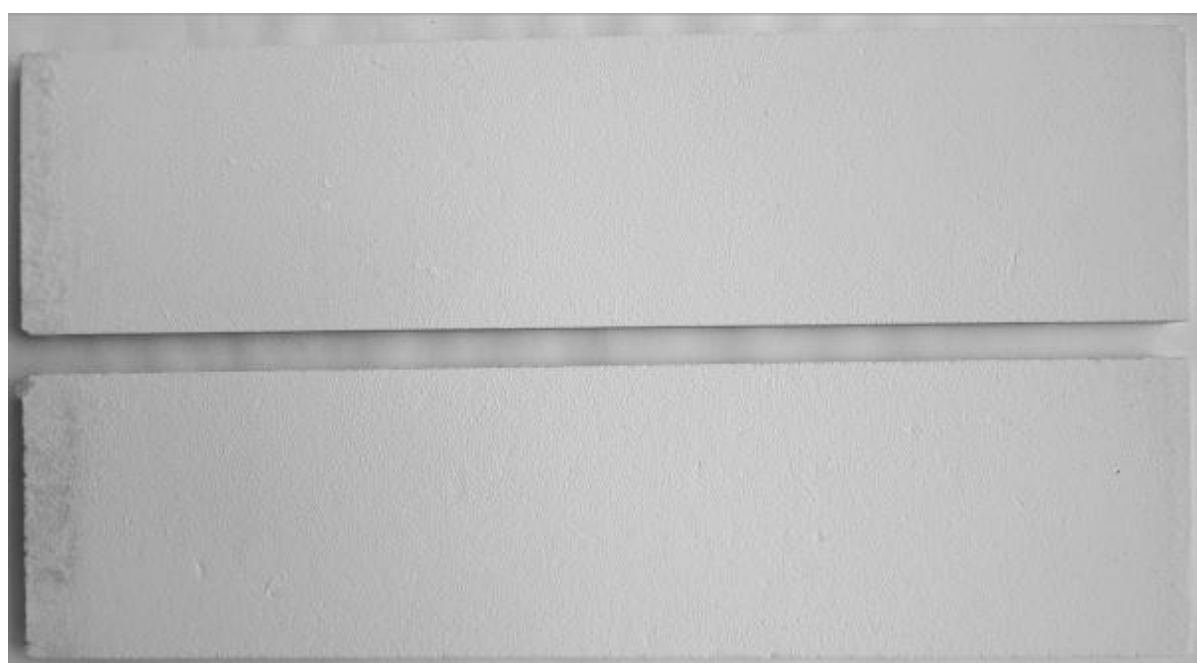
Sample	Deviations in color coordinates after 1500 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	ΔL	Δa	Δb	ΔE
11742-3	-0.29	-0.09	-0.4	0.50
11742-4	-0.29	-0.09	-0.46	0.55

Sample	Deviations in color coordinates after 2000 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	ΔL	Δa	Δb	ΔE
11742-3	-0.36	-0.12	-0.51	0.64
11742-4	-0.32	-0.08	-0.45	0.56



Photos of samples No. 3, 4

500 hours of exposure under UV lamps





Photos of samples No. 3, 4 exposure for 1000 hours under UV lamps

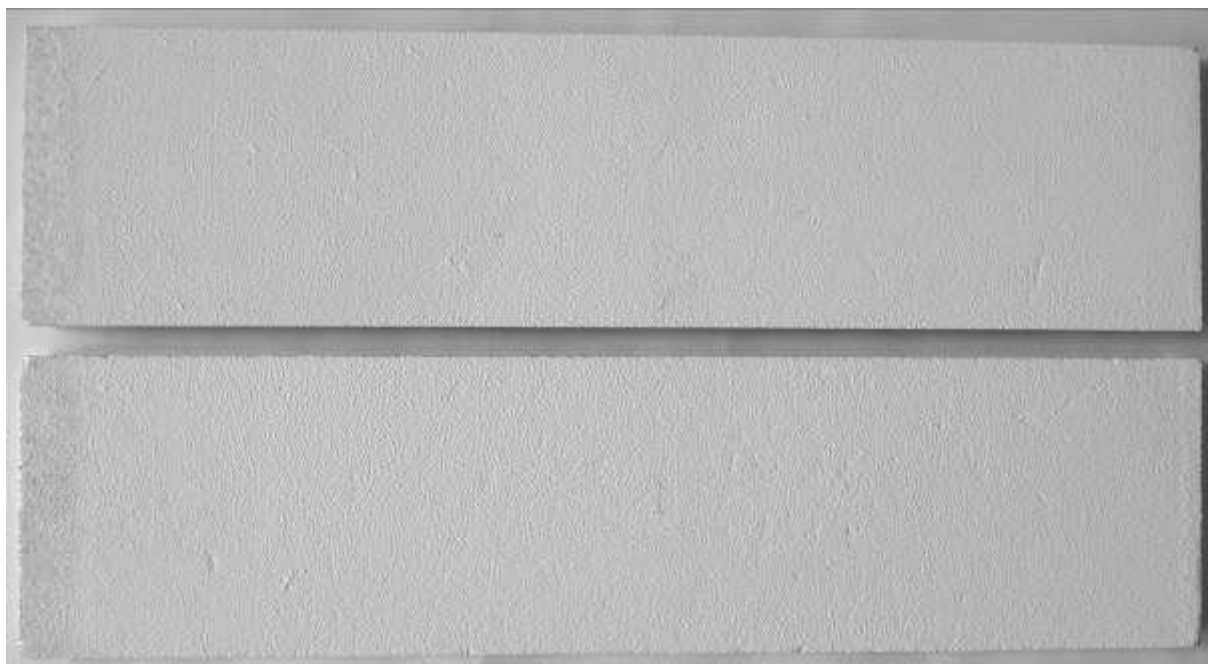
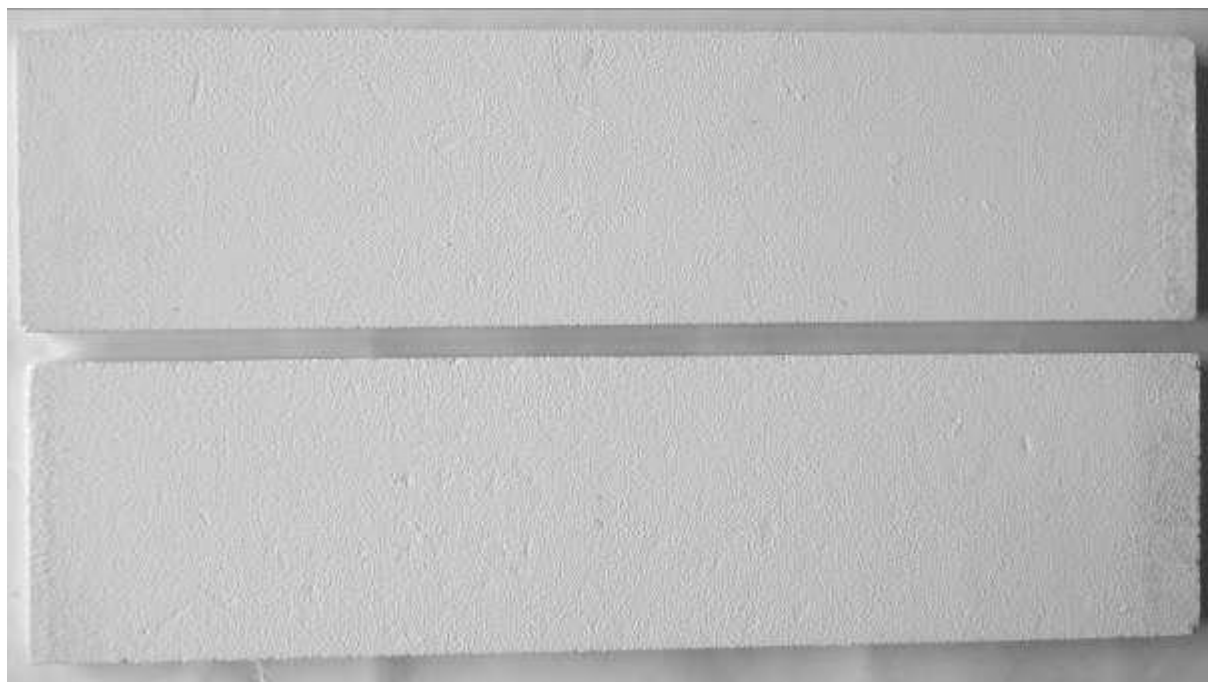


Photo of samples no. 3, 4 Exposure to UV lamps for 1500 hours



Photo of samples no. 3, 4

Exposure to UV lamps for 2000 hours



Names of tests:

Tear test – Adhesion test

Surface treatments of building structures for the substrate

Test according to:

ČSN 73 2577

Testing equipment:
conditions:
%

AMB 10 pull-off device, Roklan electronic, Czech Republic Test
The test was performed in a laboratory at $(23 \pm 2)^{\circ}\text{C}$ and (50 ± 5)

Reference test:

humidity

Samples after exposure:

samples in delivered condition were tested
conditioned for more than 24 hours under laboratory conditions
Samples after testing according to ČSN EN ISO 4892-3 exposure
2000 hours, stored in laboratory conditions for 168 hours prior to
tear test

Test specimens:

aluminum test specimens with a diameter of 50 mm

Adhesive used:
time:

Bison two-component epoxy adhesive Adhesive drying
24 hours at laboratory temperature

Cutting of test

with a core drill with a diameter of 56 mm

Unusual phenomena
and anomalies: Test
results

No phenomena or anomalies occurred during the test

Tear test – reference test samples without exposure, only conditioned
under laboratory conditions.
Samples 11742-1, 11742-2

Tear strength [MPa]	1.	2.	3.	4.	5.	6.	Average
	0.48	0.48	0.50	0.58	0.58	0.55	0.53 ± 0.05
Refractive index	A	A	A	A	A	A	-

Tear test – test after 2000 hours of exposure Test according to ČSN EN ISO 4892-3 Samples 11742-3,
11742-4

Tear strength [MPa]	1.	2.	3.	4.	5.	6.	Average
	0.43	0.50	0.44	0.44	0.47	0.42	0.45 ± 0.03
Refractive index	A	A	A	A	A	A	-

Photo of parts no. 1, 2 after tear test - without exposure



Photo of parts no. 3, 4 after tear test – exposure 2000 h under UV lamps



*Information provided by the customer.

Date of issue of the protocol:
Approved by:

03.11.25

Ing. Martin Kaška, Ph.D., Head of Laboratory



The results apply only to the items tested.

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