



Institut für
Oberflächentechnik
GmbH

Test Report

Referred to: Quality tests acc. to Qualicoat Specifications 2024-V01

Client: Compri Coating Service
Everdongenlaan 5
2300 Turnhout
Belgium

Job number: 44477_1

Samples receipt: 2024-01-02

Start of testing: 2024-01-15

End of testing: 2024-02-26

Creation date: 2024-03-04

Number of pages: 9 pages

Reproduction, duplication, translation and use of assessment / report for advertising or transmission to third parties – whether as a whole, shortened or in an abridged version – requires written permission. The results documented in this report only refer to samples / records made available and belonging to them.

The expanded measurement uncertainty is not taken into account in the conformity assessment unless otherwise agreed. Irrespectively, the measurement uncertainty is stated if possible.



Accredited by DAkkS (Deutsche Akkreditierungsstelle GmbH)
according to German Industrial Standard DIN EN ISO/IEC 17025
accredited test laboratory.

The accredited test methods are marked with an **asterisk ***.



1 Sample Details acc. to Customers Specification

<u>Label / No.:</u>	<u>Number:</u>	<u>Material / Surface:</u>
Group 1: Profiles	5 pieces	Aluminium Powder coating: Axalta AE 300C9900320 RAL 9003
Group 2: Profiles	5 pieces	Aluminium Powder coating: Axalta AE 300C9900320 RAL 9003
Group 3: Profiles	5 pieces	Aluminium Powder coating: Axalta AE 300C9900320 RAL 9003
Group 7: Profiles	5 pieces	Aluminium Powder coating: Axalta AE 300C9900320 RAL 9003

2 Applied Test Methods

<u>Test / Standard and parameters:</u>	<u>Device:</u>
Acetic acid salt spray test acc. to DIN EN ISO 9227:2023-03* – AASS acc. Qualicoat specification 2024 V01:2024-01* Duration: 1000 h Scribe tool: 1 mm Sikkens Scribe form: X form acc. to ISO 17872	SAL 3500-FL HL (Co. Köhler) Last performance check: 37 g/m ² Target: 30-50 g/m ²
Filiform corrosion test acc. to DIN EN ISO 4623-2:2016-12* acc. to Qualicoat specification 2024 V01:2024-01* Duration: 1000 h Initiation method: dripping Scribe tool: 1 mm Sikkens Scribe form: T form acc. to ISO 17872	HPP1060eco (Co. Memmert)

3 Requirements and Results

3.1 Acetic acid salt spray test – AASS

Requirements acc. to Qualicoat specification 2024 V01:2024-01:

- No blistering in excess of 2 (S2) according to ISO 4628-2. An infiltration of maximum 16 mm² is allowed over a scratch length of 10 cm but the length of any single infiltration shall not exceed 3 mm according to EN 12206-1.

Sample: Duration: Results:

Group 1 2 samples	1000 h	Degree of blistering: 0(S0) Area infiltration: 1.5 mm ² / 10 cm Max. infiltration: 0.9 mm	0(S0) 1.6 mm ² / 10 cm 0.8 mm
Group 2 2 samples		Degree of blistering: 0(S0) Area infiltration: 1.7 mm ² / 10 cm Max. infiltration: 1.0 mm	0(S0) 1.4 mm ² / 10 cm 0.5 mm
Group 3 2 samples		Degree of blistering: 0(S0) Area infiltration: 3.3 mm ² / 10 cm Max. infiltration: 1.2 mm	0(S0) 2.1 mm ² / 10 cm 0.8 mm
Group 7 2 samples		Degree of blistering: 0(S0) Area infiltration: 25.0 mm ² / 10 cm Max. infiltration: 3.0 mm	0(S0) 8.1 mm ² / 10 cm 2.3 mm

3.2 Filiform corrosion test

Requirements acc. to Qualicoat specification 2024 V01:2024-01:

- Acceptable limits within 10 cm on each side of the scratch:
 - Longest filament \bar{L} : ≤ 4 mm
 - Average length of filaments \bar{M} : ≤ 2 mm

Group 1:

[illegible]

Group 2:

[illegible]

Group 3:

[illegible]

Group 7:

[illegible]



4 Conclusions and Evaluation

AASS-Test:

The groups 1, 2 and 3 fulfill the requirements acc. to Qualicoat specifications V01:2024-1.
One sample of group 7 fulfills the requirements acc. to Qualicoat specifications V01:2024-1.
One sample of group 7 doesn't fulfill the requirements acc. to Qualicoat specifications V01:2024-1.

FFC-Test:

The groups 1, 2 3 and 7 fulfill the requirements acc. to Qualicoat specifications V01:2024-1.

Schwaebisch Gmuend,
2024-03-04

Sebastian Windhab
Project Engineer

Joerg Bihlmaier
Key Account Manager

5 Photo documentation



Figure 1 – Group 1 after 1000 h AASS-Test



Figure 2 – Group 2 after 1000 h AASS-Test



Figure 3 – Group 3 after 1000 h AASS-Test



Figure 4 – Group 7 after 1000 h AASS-Test

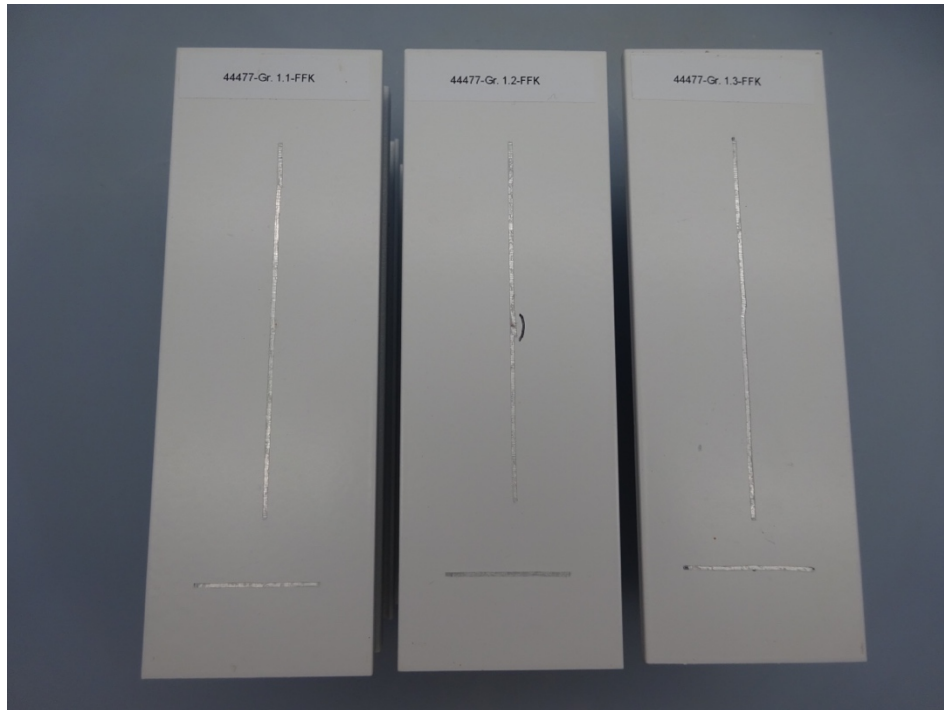


Figure 5 – Group 1 after 1000 h FFC-Test

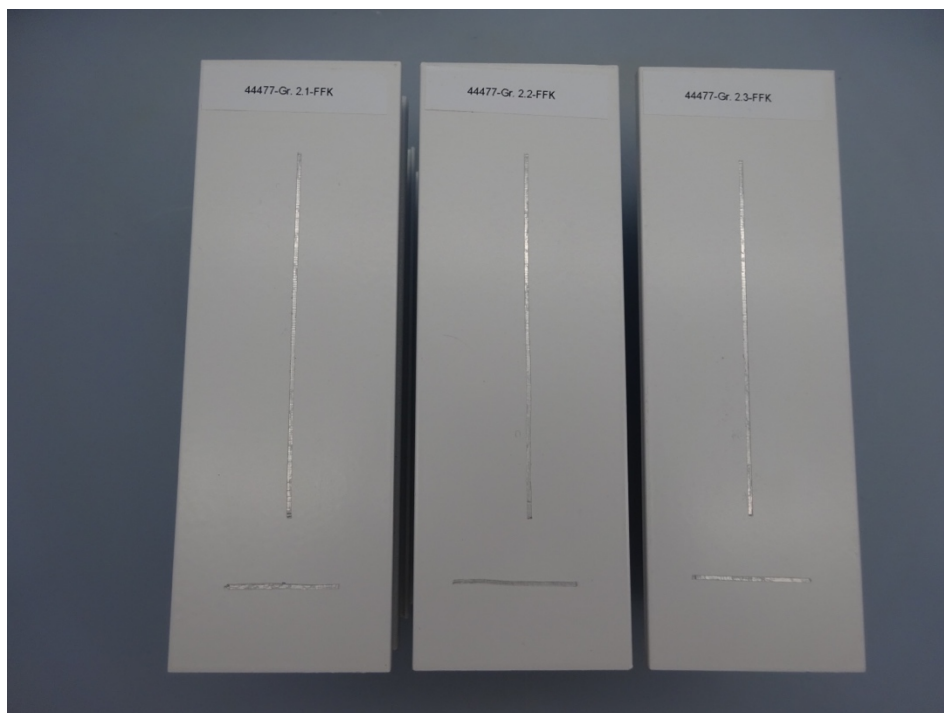


Figure 6 – Group 2 after 1000 h FFC-Test



Figure 7 – Group 3 after 1000 h FFC-Test



Figure 8 – Group 7 after 1000 h FFC-Test