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Corrosion test in Artificial Atmosphere - Neutral Salt Spray

According to EN ISO 9227:2023

Date: 05/03/2024	Customer: --	Distributor: OK-COLOR SPOL. S.R.O.	Dist. Inquiry nr.: 3/24/OKC/E
Test performed by: Europolveri R&D Lab.	Sample ref.: 54/24	Description: 2 coated pieces	Color: Grey RAL 7016

Neutral Salt spray (NSS), chamber temperature: 35°C, sodium chloride concentration 50 g/l

Test started: 23/01/2024

Test after 960 h: 05/03/2024

Request for test duration: 960 h

Test checks: checked at 120, 240 h, 480, 720 h and final check at 960 h

Test specimens: 2 pieces (identified with 1 and 2) coated with grey powder 5L4870163T000, as declared by distributor.

Coating thickness:

Piece 1: 79 ÷ 88 µm ca;

Piece 2: 63 ÷ 91 µm ca.

With S. Andrea's-cross cut.

Before checks test specimens are washed with water and dried. After one hour degradation of coating is valued (delamination; blistering; rusting).

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Code	1 st Check: 29/01/2024 120 h. exp.	2 st Check: 02/02/2024 240 h. exp.	3 st Check: 13/02/2024 480 h. exp.	4 st Check: 23/02/2024 720 h. exp.	5 nd Check: 05/03/2024 960 h. exp.
54/24_1	No defects. Test continued.	No defects. Test continued.	No defects. Test continued.	No defects. Test continued.	No defects. Test finished.
54/24_2	No defects. Test continued.	Delamination of 1.5 mm. Test continued.	Delamination of 3 mm. Test finished.	—————	

Final evaluation of the test:

In the final evaluation we exclude the coating area of the edges of the pieces.

Specimen	Degree of rusting EN ISO 4628-3:2016	Degree of blistering EN ISO 4628-2:2016	Degree of delamination at the scratch EN ISO 4628-8:2013
54/24_1– 960 h	Ri0; no rusting.	No detectable significant defects	No defects
54/24_2– 480 h	Ri0; no rusting.	No detectable significant defects	Grade 4 - Considerable

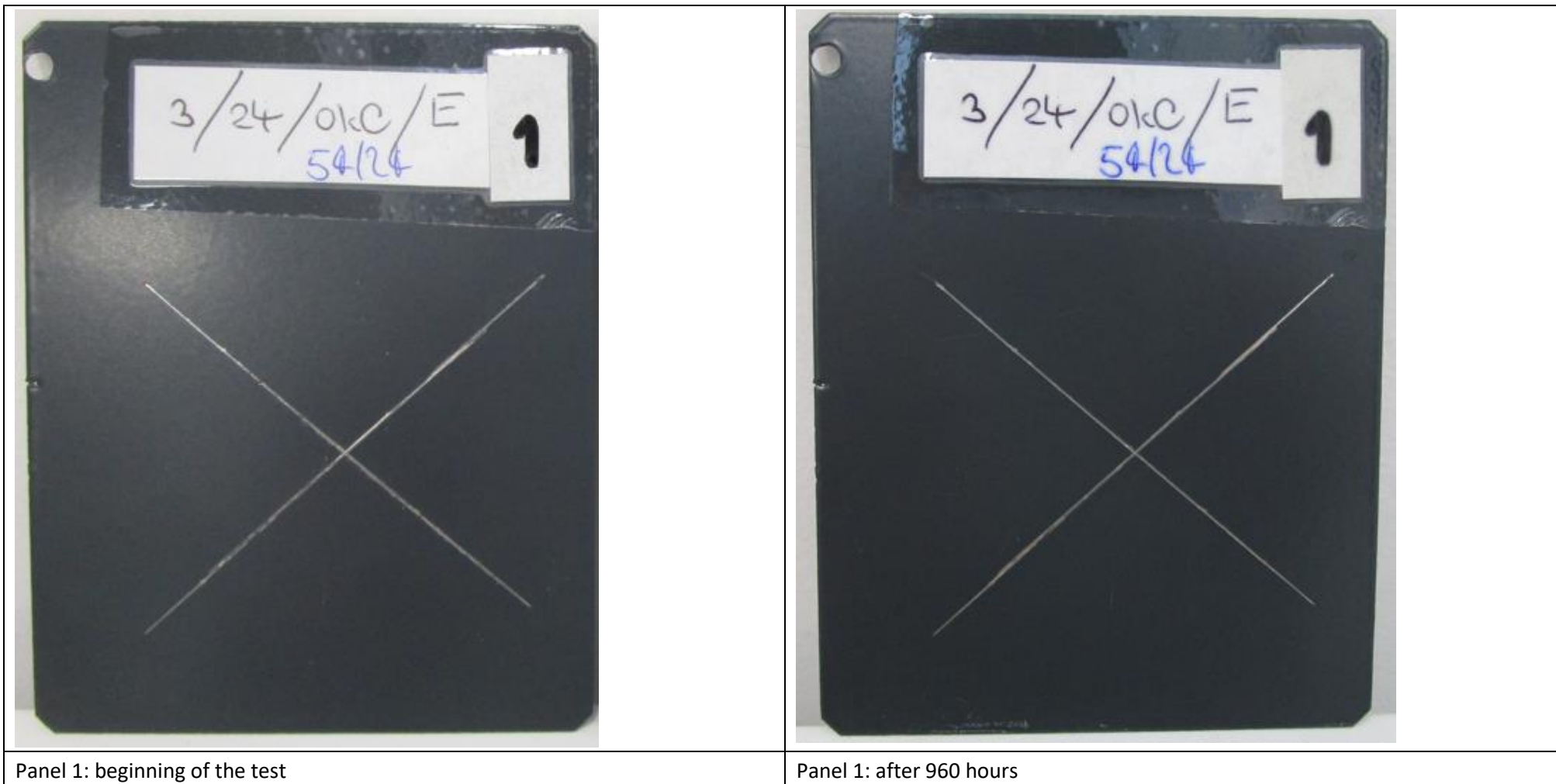
Notes: See attached pictures of specimens before starting the test and at the end.

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Panel 2: beginning of the test

Panel 2: after 480 hours

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