

# Laboratory Test Report

## Test Information

- **Test Standard:**  
DS/EN ISO 16474-1 (ISO 11507:2007 is withdrawn and replaced by DS/EN ISO 16474-1)  
DS/EN ISO 4628-1:2003  
DS/EN ISO 4628-2:2003  
DS/EN ISO 4628-4:2003  
DS/EN ISO 4628-5:2003  
DS/EN ISO 4628-6:2003  
ISO 11664-4/6
- **Test Name:**  
Weathering test according to DS/EN ISO 16474-1  
General appearance according to DS/EN ISO 4628-1:2003  
Blistering according to DS/EN ISO 4628-2:2003  
Cracking according to DS/EN ISO 4628-4:2003  
Flaking according to DS/EN ISO 4628-5:2003  
Chalking according to DS/EN ISO 4628-6:2003  
Color change according to ISO 11664-4/6
- **Test Date:**  
25/10 2023, reporting the results of the weathering test 08/01 2024.
- **Tested By:**  
Test was ordered to Strenometer Aps who sent the samples to Atlas in Germany.  
The results of the weathering test are reported by Jolanta Rydalska.

## Sample Details

- **Sample Name/ID:**  
The following Nowocoat Roofpaint was tested:

Nowocoat gl. 5, Sort	3215
Nowocoat gl. 12, Sort	3066
Nowocoat gl. 20, Sort	2729
Nowocoat gl. 50, Sort	3065
Nowocoat gl. 5, Teglrød	6042
Nowocoat gl. 12, Teglrød	3079
Nowocoat gl. 20, Teglrød	3080
Nowocoat gl. 50, Teglrød	3081
Nowocoat gl. 5, Hvid	6066
Nowocoat gl. 12 Hvid	6128
Nowocoat gl. 20, Hvid	3295

Nowocoat gl. 50, Hvid 6130

- **Material:**  
Swisspearl slates, 15 cm. × 7,5 cm. × 4 mm.
- **Surface Preparation:**  
Lightly sanded, washed, and dried.
- **Paint System:**  
Two-layer Nowocoat Roofpaint applied according to the Nowocoat Roofpaint product description. The nozzle was 517 and the pressure was 160-200 bar. Layer thickness was 200-225 μ. for all specimens.

## Test Method

- **Test Equipment:**  
UV-chamber for accelerated weathering test.  
X-rite color i5 for color measurement.  
Objectra magnifier with light for assessment of specimens.
- **Test Procedure:**  
As described in DS/EN ISO 16474-1

## Testing Conditions UV-chamber

As described in DS/EN ISO 16474-1:

- **Temperature:** UVA 4t 60°C.
- **Relative Humidity:** 4t 50°C.

File specimens are stored in 20 ° C ± 3 ° C in a dark space as stated in DS/EN ISO 16474-1 and is used as reference specimen.

## Test Results

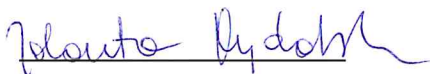
The mean value results of the weathering test can be seen in Table 1 under attachments.

## Conclusion

The weathering test is carried out on a white color, intermediate color and a dark color, which is representative for the entire paint system. The results in Table 1 shows that the samples tested in UV-chamber complies with the criteria O23 point 2 stated in "Nordic Ecolabelling of Chemical building products".

The criteria concerning the decrease in gloss is not applicable for the samples tested, since the initial gloss is less than 60 % and are therefore not included in this report.

There is no visible blistering, cracking or flaking despite a thorough examination of the samples. There is only a small amount of chalking in sample 2729, but the sample still complies with the criteria.



**Test performer**

**Jolanta Rydalska**



**Lab. Manager**

**Steffen Hawkins**

# Attachments

Table 1 Results of the weathering test.

	Sample ID/ number	General Appearance		Blistering		Cracking		Flaking		Chalking		ΔColor change ISO
		DS/EN ISO	4628-1:2003	DS/EN ISO	4628-2:2003	DS/EN ISO	4628-4:2003	DS/EN ISO	4628-5:2003	DS/EN ISO	4628-6:2003	
Nowocoat gl. 5, Sort	3215		0		0		0		0		0	0,38
Nowocoat gl. 12, Sort	3066		0		0		0		0		0	0,395
Nowocoat gl. 20, Sort	2729		0		0		0		0		0,5	0,58
Nowocoat gl. 50, Sort	3065		0		0		0		0		0	0,665
Nowocoat gl. 5, Teglrød	6042		0		0		0		0		0	0,76
Nowocoat gl. 12, Teglrød	3079		0		0		0		0		0	0,845
Nowocoat gl. 20, Teglrød	3080		0		0		0		0		0	0,82
Nowocoat gl. 50, Teglrød	3081		0		0		0		0		0	0,595
Nowocoat gl. 5, Hvid	6066		0		0		0		0		0	0,455
Nowocoat gl. 12 Hvid	6128		0		0		0		0		0	0,59
Nowocoat gl. 20, Hvid	3295		0		0		0		0		0	0,62
Nowocoat gl. 50, Hvid	6130		0		0		0		0		0	0,34