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ANALYSIS REPORT

Order no.: **A-170123-01**

Client: CD-Color GmbH & Co. KG
Wetterstraße 58
D-58313 Herdecke

Test object: "LUCITE Multi-Resist Pro" wall paint

Test objective: Proof of the test object's resistance to disinfectants

Order received on: 23.01.2017
Sample received on: 10.01.2017
Test period: 23.02.2017 to 19.05.2017

Your code:
Your letter dated:

My code: AW_mw
Date 29.05.2017

Note:
This analysis report must be published in its entirety. Publishing extracts thereof may change the meaning and requires written approval.

1. Task

We were asked to test the wall paint "**LUCITE Multi-Resist Pro**" regarding its resistance to different disinfectants.

2. Test sample

The wall paint was selected by the client, we were provided with a 12.5-litre bucket of "***LUCITE Multi-Resist Pro***".

3. Material and methods

The tests were performed based on the standard DIN EN ISO 2812-1 "Paints and varnishes - Determination of resistance to liquids".
The tests were performed using commercial disinfectants under realistic application conditions.

4. Disinfectant selection

The disinfectants required for the test were selected based on commercially available disinfectants. The products were taken from the list of disinfectants and disinfection processes as tested and approved by the Robert Koch Institute,
published in the Federal Health Bulletin 2013/56:1702-1705.

This includes the following products:

1. Buraton 10 F
2. Buraton 3025
3. Perform
4. Calcium hydroxide (“milk of lime”)
5. Helipur
6. Incidin

5. Experiment

The laboratory experiment was performed based on **DIN EN ISO 2812-1** (replacement for DIN 53 168 1982-03) (Paints and varnishes: *“Determination of resistance to liquids”* – Annex A).

For the experiment, six pieces of plasterboard measuring 300 x 300 x 12.5 mm were made and used as test pieces. The test pieces were then coated with the wall paint “***LUCITE Multi-Resist Pro”*** according to the manufacturer’s instructions and left in the laboratory to dry for 24 hours. After the paint had completely dried, each test piece was divided into four equal test fields. A distance of 10 mm was kept between the individual test fields. The required solutions were made using the disinfectants according to the manufacturer’s instructions. Then the test fields were treated with disinfectant according to the manufacturer’s instructions.

The test fields were visually inspected at various stages. This was documented with photographs (see annex A).

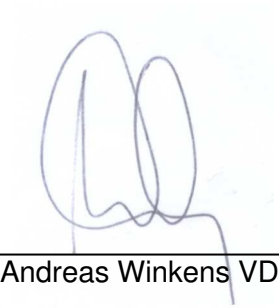
- Test field A = reference area
- Test field B = spotted
- Test field C = coated
- Test field D = coated; worst case conditions after 24 hours exposure time

6. Result[1]

After both one hour and 24 hours, no changes to the colour surface could be identified. An examination after 10 weeks showed no changes compared to the analysis after 24 hours.

Therefore, the wall and ceiling paint "***LUCITE Multi-Resist Pro***" meets the requirements of resistance to disinfectants based on the tests performed.

Mönchengladbach, dated 26.05.2017



(Dr Andreas Winkens VDI)

Annex A – photo documentation

[1] The results refer exclusively to the tested products.

Fig. 1: Arrangement of test samples before experiment

Fig. 2: Single test sample

Fig. 3: Prepared disinfectants

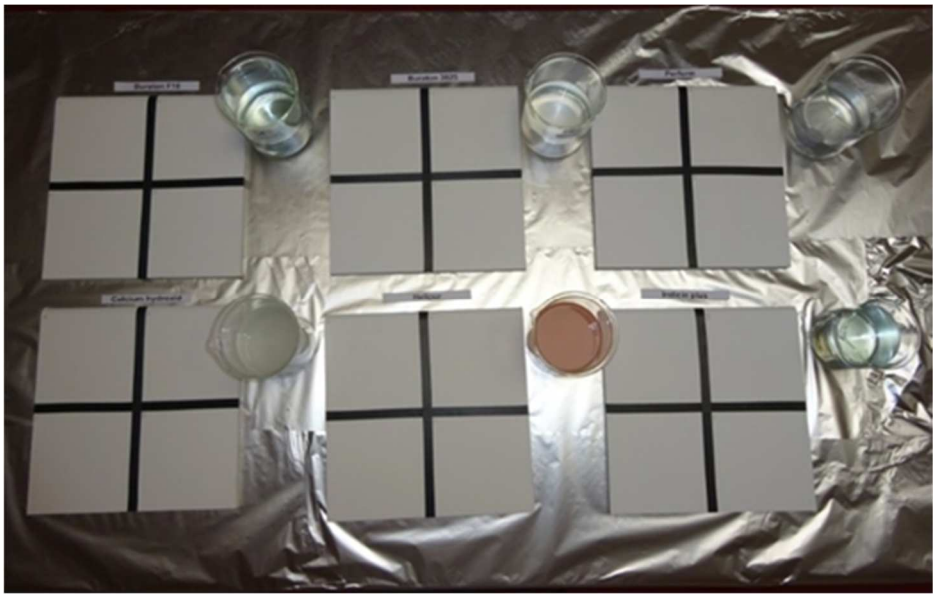


Fig. 4: Test samples with disinfectants

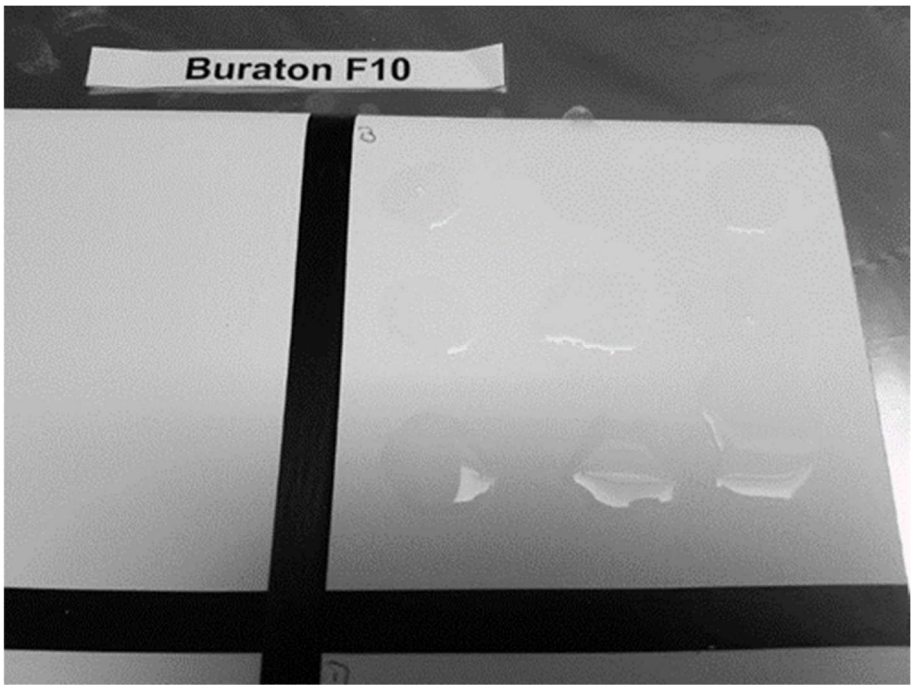


Fig. 5: Test field “B” with drops of disinfectant

Fig. 6: Test field “D” coated with disinfectant

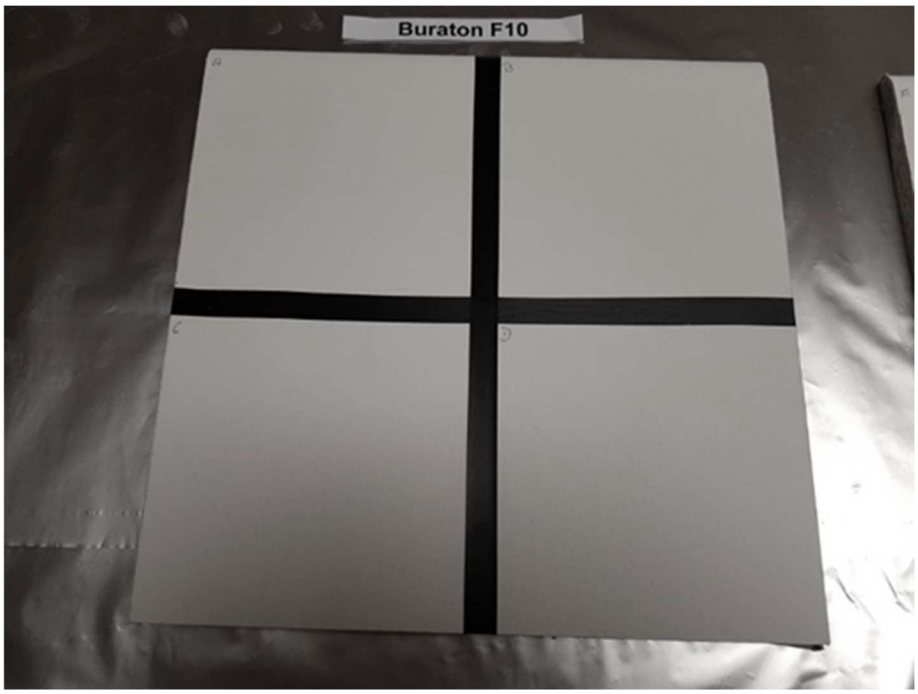


Fig. 7: Test samples after one hour

Fig. 8: Test samples after 24 hours

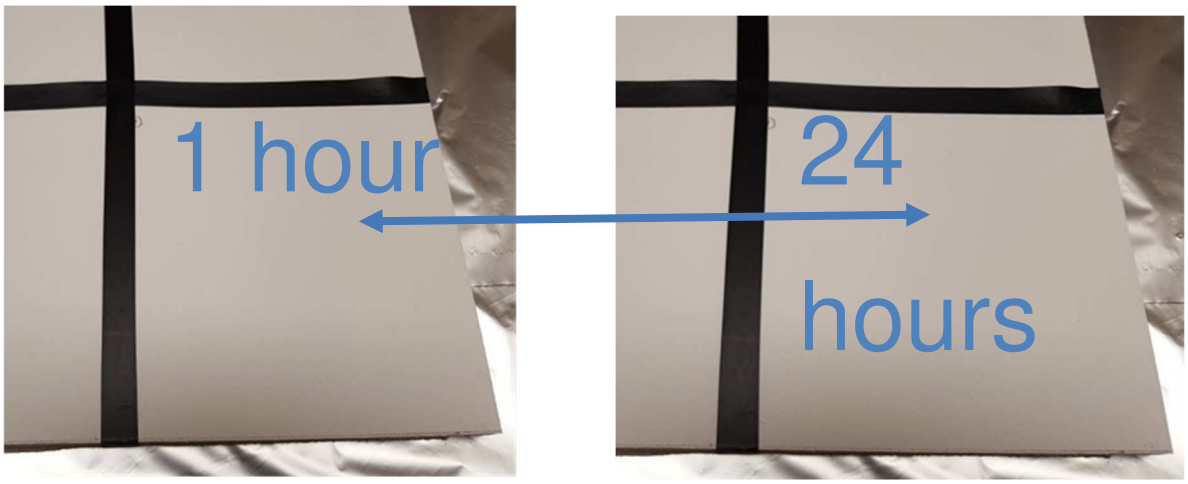


Fig. 9: Comparison of test samples after 1 hour and after 24 hours