

1. Test object

Leneta test panel (ca. 165 mm x 100 mm) coated with Liquid Guard.

2. Coating batch

Liquid Guard Clean + Primer wipe: 241019-9456

Liquid Guard Wipe: 241019-9457

3. Test period

03.06.2020 – 05.06.2020

4. Process

4.1: 2-step wipe application of coating

Step 1: Liquid Guard Clean + Primer wipe

Step 2: Liquid Guard wipe

4.2: Selective application of marker

4.3: Determination of wet-scrub resistance and cleanability of coatings (DIN EN ISO 11998).

Cleaning simulation with water and cleaning agent using a wipe-testing device (PB 5000 BYK).



Figure 1: Test set-up. Wipe-testing device PB 5000 BYK and Leneta plates coated with Liquid Guard.

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5. Results

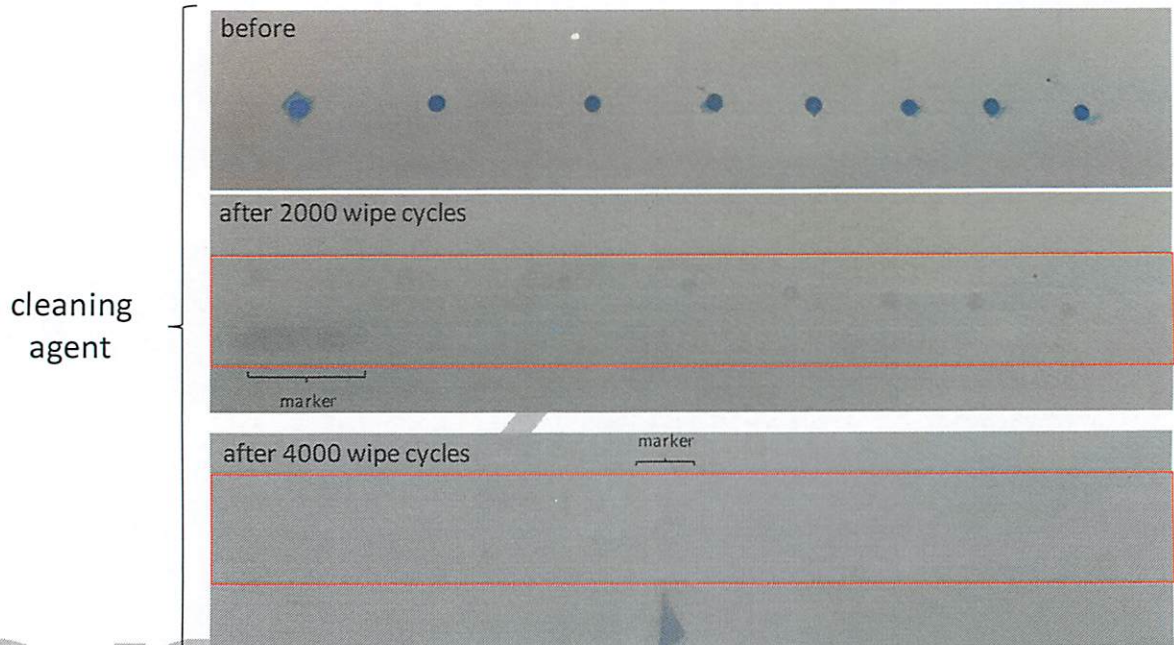


Figure 2: Test plates before and after 2000/4000 wipe cycles with cleaning agent. The red area depicts the treated (wiped) area.

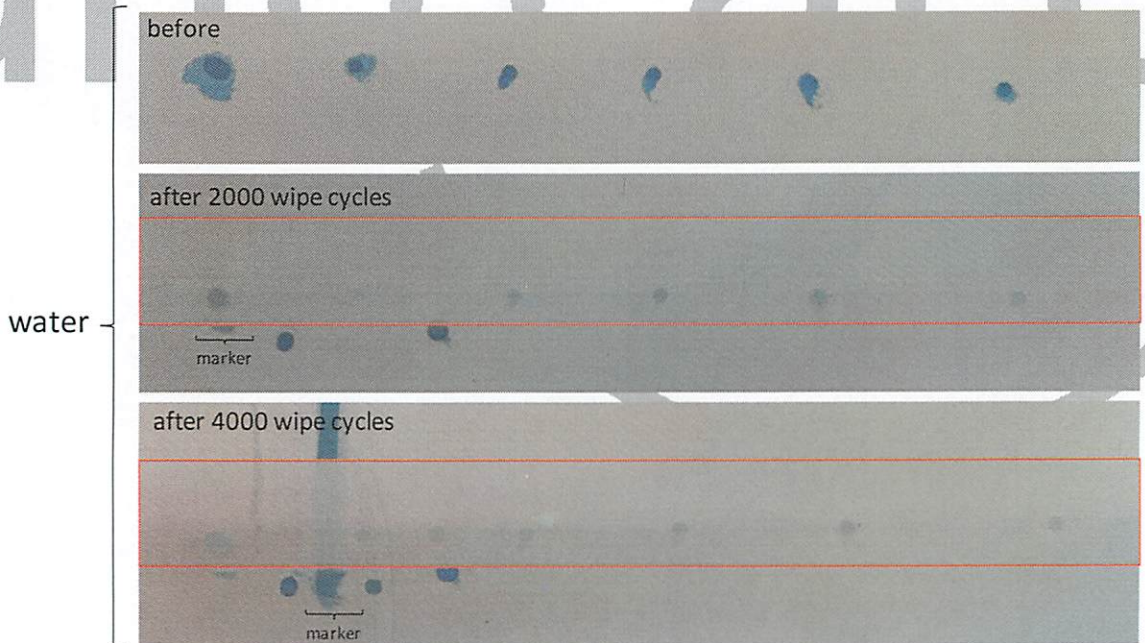


Figure 3: Test plates before and after 2000/4000 wipe cycles with water. The red area depicts the treated (wiped) area.

By using a wipe-testing device, the cleaning with water and a cleaning agent on Liquid Guard coated surfaces was simulated. After 2000 and 4000 wipe cycles (1 cycle = 2 wipe movements) the presence of the coating was verified by the marker. To exclude that

solely the marker was removed or that it reacted with water/cleaner, the test plate was dried and fresh marker was applied before the plate was checked.

After 2000 wiping cycles, the coating was still present on the surfaces treated with water as well as on the surface treated with the cleaning agent. After a further 2000 cycles (in total 4000) no coating could be detected on the surface treated with cleaner. In comparison to this, detection was still possible on the water-treated surface.

6. Conclusion

The application of the cleaning agent led to a removal of the coating after 8000 wiping movements. In comparison, the coating showed a higher stability when cleaned with water, as the coating was still detectable after 8000 wiping movements. It can therefore be concluded that the removal of the coating is based on the use of the cleaner and not exclusively on the wiping movement. Furthermore, this shows that the coating will at least be stable for 8000 wipe movements if only water is used.

The testing was carried out in accordance with DIN EN ISO 11998 and carefully conducted to the best of our knowledge and belief.

The test results refer exclusively to the test objects.

The test report comprises 3 pages.

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Saarwellingen, 07 Jul 2020
NANO-CARE DEUTSCHLAND AG
Alfred-Nobel-Straße 10 nanoCare
D-66793 Saarwellingen
Phone: +49 6838 97 49 140
Fax: +49 6838 97 49 160


Dr. Fabienne Hennesen