

<b>Subject:</b>	<b>Water spot test</b>
<b>QUALICOAT resolution:</b>	<p><b><u>Resolution No. 9/TC 23.05.17</u></b></p> <p>The TC asked the Powders WG to prepare a proposal for the introduction of a water spot test for granting and renewing approvals, without fixing any limit values, to gain experience over a certain period.</p>
<b>Date of ratification:</b>	22-23 November 2017
<b>Date of application:</b>	<b>1 July 2018</b>
<b>Amendment to the Specifications:</b>	<ul style="list-style-type: none"> <li>• New Section 2.20 Water Spot test</li> <li>• Additional item in section 4.1.3 Tests for granting an approval</li> <li>• Additional reference in section in 4.2.1 Laboratory tests and Florida test</li> </ul>

## **2.20 Water spot test**

### **TEST METHOD**

The demineralised water shall be heated up to 60°C in a beaker of the proper size and kept under stirring to uniform temperature.

The test panels shall be immersed for a half in water. Care must be taken not to put the panel in contact with the bottom of the beaker.

The panel shall be immersed for 24 hours at 60 ± 1°C. The glass shall be properly covered to avoid water evaporation.

At the end of the test, the panel shall be immediately cooled down in demineralised water. It shall then be dried with paper towels without rubbing.

Colour change:  $\Delta E$  and  $\Delta L$  CIELAB formula according to ISO 11664-4, measurement including specular reflection.

### **REQUIREMENTS:**

#### **Colour change**

The  $\Delta L$  value shall be less than 4.

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**4.1.3 Tests for granting an approval<sup>1</sup>**

The following tests shall be made:

- 1) Gloss (2.2)
- 2) Coating thickness (2.3)
- 3) Dry adhesion (2.4.1)
- 4) Indentation (2.5)
- 5) Cupping test (2.6)
- 6) Bend test (2.7)
- 7) Impact test (2.8)
- 8) Resistance to humid atmospheres (2.9)
- 9) Acetic acid salt spray resistance (2.10)
- 10) Accelerated weathering test (2.12)
- 11) Polymerisation test (2.14)
- 12) Resistance to mortar (2.15)
- 13) Wet adhesion (2.4.2)
- 14) Condensation water test (2.17)
- 15) Water spot test (2.20)
- 16) Natural weathering (Florida) (2.13)

[...]

**4.2.1 Laboratory tests and Florida exposure**

**Renewal of class 1 and class 1.5 approvals**

Consistent quality of approved organic coating materials is monitored with tests 1 to 16 (see § 4.1.3) [..]

**Renewal of class 2 and class 3 approvals**

Consistent quality of approved systems is monitored annually with tests 1 to 16 (see § 4.1.3) [...].