

Australian Standard™

Paints and related materials—Methods of test

Method 456.1: Resistance to boiling water

AS 1580.456.1—2004

METHOD

1 SCOPE

This Standard sets out a method for assessing the resistance of a coating to immersion in boiling water, by determining any change in appearance after the appropriate period of immersion.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1580 | Paints and related materials—Methods of test |
| 1580.101.5 | Method 101.5: Conditions of test—Temperature and humidity control |
| 1580.403.1 | Method 403.1: Scratch resistance |
| 1580.601.1 | Method 601.1: Colour—Visual comparison |
| 1580.601.4 | Method 601.4: Colour—Calculation of colour differences |
| 1580.601.5 | Method 601.5: Colour—Calculation of small colour differences using the CMC equation |
| 1580.602.2 | Method 602.2: Measurement of specular gloss of non-metallic paint films at 20 degrees, 60 degrees and 85 degrees |

3 PRINCIPLE

Two coated test panels are partially immersed in boiling water for specified periods. After drying, the previously immersed coating is visually assessed for defects and the scratch resistance of the immersed and non-immersed coating is determined.

4 OCCUPATIONAL HEALTH AND SAFETY

During handling follow precautions for use outlined in suppliers Materials Safety Data Sheet (MSDS).

5 APPARATUS

5.1 Beaker

Of such size as will permit immersion of the test panels in the boiling water for about 80 mm of their length.

5.2 Scratch resistance apparatus

As specified for the scratch resistance test in accordance with AS 1580.403.1.

5.3 Heating plate

Capable of maintaining water at its boiling point throughout the test.