
Paints and related materials—Methods of test

Method 401.5: Hard dry condition—Sanding test

1 SCOPE

This Standard sets out a method for determining whether a coating is hard dry by its resistance to sanding with commercially available abrasive paper.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1580	Paints and related materials—Methods of test
1580.101.1	Method 101.1: Conditions of test—Temperature, humidity and airflow control
1580.104.1	Method 104.1: Recommended materials for test panels
1580.107.3	Method 107.3: Determination of wet film thickness by gauge

3 PRINCIPLE

A test panel is coated and allowed to dry at a specified temperature for a specified period. The test panel is scuffed with a commercially available abrasive paper of a specified grade using moderate pressure. The commercially available abrasive paper is then examined for clogging by particles of paint film. The coating is deemed to be hard dry when there is no working up of the surface, or undue clogging of, or pull on the commercially available abrasive paper. This Method is not suitable for water borne paints.

NOTE: Where a measure of the hard dry time is required, the method should be repeated sequentially until the actual hard dry period is determined.

4 MATERIALS

Commercially available abrasive paper. If the abrasive paper shows any signs of brittleness, it should be discarded.

5 TEST PANEL

An appropriate test panel, conforming to AS 1580.104.1 and of dimensions 100 mm × 150 mm, is required.

6 OCCUPATIONAL HEALTH AND SAFETY GUIDANCE

Personal protective equipment should be considered when working with sanding dust.

7 PREPARATION OF TEST PANEL

The test panel shall be selected and prepared in accordance with the product specification. The film thickness shall be determined in accordance with AS 1580.107.3.