

# Australian Standard™

## Paints and related materials—Methods of test

### Method 107.1: Determination of wet film thickness from dry film mass

#### METHOD

##### 1 SCOPE

This Standard sets out a procedure for the determination of the wet film thickness of a coating from its dry film mass. It is specially intended for use with coatings containing highly volatile solvents where AS 1580.107.2 is not applicable.

##### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

###### AS

1580	Paints and related materials—Methods of test
1580.107.2	Method 107.2: Determination of wet film thickness from wet film mass
1580.202.1	Method 202.1: Density
1580.202.2	Method 202.2: Density of water-dispersed paints subject to foaming
1580.301.1	Method 301.1: Non-volatile content by mass

##### 3 PRINCIPLE

A test panel is weighed before it is coated with the test material, and again after the coating has been applied and allowed to dry. After determining the density of the material and the mass of the dry film, the wet film thickness is calculated.

##### 4 OCCUPATIONAL HEALTH AND SAFETY

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

##### 5 APPARATUS

###### 5.1 General

A balance, accurate and readable to the nearest milligram, is required.

###### 5.2 Measuring device

A rule, graduated at 1 mm intervals, for measuring the distance between individual cuts.

##### 6 PROCEDURE

The procedure shall be as follows:

- Determine the density of the material by the procedure specified in AS 1580.202.1 or AS 1580.202.2, as appropriate, and its non-volatile content by AS 1580.301.1.
- Measure the linear dimensions of the test panel to an accuracy of 1 percent and determine the face area.