

Australian Standard[®]

Paints and related materials—Methods of test

Method 408.4: Adhesion (cross-cut)

PREFACE

This Standard was prepared by the Standards Australia Committee on Paints and Related Materials under the direction of the Multitechnics Standards Policy Board. This revision is substantially the same as the previous Standard, but provides changed information on the cutting tool, the direction of pull on the adhesive tape, and allows for field testing.

Although technically equivalent to ISO 2409, *Paints and varnishes—Cross-cut test*, this Standard differs in that it requires the use of pressure-sensitive adhesive film.

METHOD

1 SCOPE This Standard sets out a method for assessing the adhesion of paint coatings to substrates by applying and removing pressure-sensitive adhesive tape over cuts made in the coating. The method is also applicable as a field procedure, when not under the controlled environmental conditions of AS 1580.101.1, however the temperature of the surface needs to be recorded. It is not applicable to soft or friable substrates where the coating thickness is less than 50 µm.

NOTES:

- 1 The method is not considered suitable for coatings thicker than 125 µm.
- 2 The method does not distinguish between high levels of adhesion for which more complex procedures are required, such as a pull-off adhesion test similar to ASTM D4541 or ISO 4624.
- 3 In multicoat systems, if adhesion failure occurs between coats, the adhesion of the coating system to the substrate cannot be determined.

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: Air drying conditions
1580.101.4	Method 101.4: Conditions of test, temperature controlled
1580.102.1	Method 102.1: Sampling procedure
1580.103.1	Method 103.1: Preliminary examination and preparation for testing
1580.107.3	Method 107.3: Determination of wet film thickness by wheel gauge
1580.108.1	Method 108.1: Determination of dry film thickness on iron and steel substrates (permanent magnet instruments)
1580.108.2	Method 108.2: Dry film thickness—Paint inspection gauge
1635	Methods of testing pressure sensitive adhesive tape
1635.3.1	Method 3.1: Adhesion strength