STANDARDS AUSTRALIA

RECONFIRMATION
OF
AS 1580.408.2—2004
Paints and related materials—Methods of test
Method 408.2: Adhesion—Knife test

RECONFIRMATION NOTICE

Technical Committee CH-003 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 26 August 2019.

The following are represented on Technical Committee CH-003:

Australasian Corrosion Association
Australian Institute of Building
Australian Paint Manufacturers Federation
Australian Wall and Ceiling Association
Engineering New Zealand
Master Painters Australia
Master Painters New Zealand Association
National Association of Testing Authorities Australia
National Painting and Decorating Institute
Surface Coatings Association Australia

NOTES

AS 1580.408.2—2004

Reconfirmed 2019

Australian Standard™

Paints and related materials—Methods of test

Method 408.2: Adhesion—Knife test

METHOD

1 SCOPE

This Standard method sets out two procedures for assessing qualitatively the adhesion of a coating or coating system of any thickness, to a metal substrate by cutting through the coating in a prescribed manner. This method may be used on other substrates but has limitations on soft friable substrates.

The method may be used to compare the adhesion of paint films or to assess the change in adhesion of a coating after exposure, e.g., to natural weathering.

With appropriate modifications and by waiving the restraints of preconditioning and test conditions, the test is readily applicable to field use.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1580	Paints and related materials—Methods of test	
1580.101.5	Method 101.5:	Conditions of test—Temperature and humidity control
1580.107.3	Method 107.3:	Determination of wet film thickness by gauge
1580.108.1	Method 108.1:	Determination of dry film thickness on metallic substrates—Non-destructive methods
1580.108.2	Method 108.2:	Dry film thickness—Paint inspection gauge
1580.408.4	Method 408.4:	Adhesion (crosscut)
3894	Site testing of protective coatings	
3894.3	Part 3: Determination of dry film thickness	

3 PRINCIPLE

The coating or coating system applied to the requisite metal substrate is cut through to the metal in a prescribed manner and the ease of removal of the coating determined.

4 OCCUPATIONAL HEALTH AND SAFETY

Care should be taken when using sharp objects. Refer Manufacturer's Safety Data Sheet (MSDS) when handling products.

5 APPARATUS

5.1 Knife blade

A sharp-edged, freshly honed knife blade with a sharp point of 45 degrees or less, such as a scalpel.

NOTE: A scalpel would be suitable for low-build commercial coatings, however a more substantial blade may be required for a high-build heavy duty coating.

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