

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 1580.403.1:1999

**Paints and related materials—Methods of test
Method 403.1: Scratch resistance**

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 30 May 2013.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 26 August 2013.

The following are represented on Technical Committee CH-003:

Australasian Corrosion Association
Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
Institution of Professional Engineers New Zealand
Master Painters New Zealand Association
Water Corporation Western Australia

NOTES

Australian/New Zealand Standard™

Paints and related materials—Methods of test

Method 403.1: Scratch resistance

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/3, Paints and Related Materials, to supersede AS 1580.403.1—1981.

METHOD

1 SCOPE This Standard sets out a procedure for determining the scratch resistance of a dry paint film.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS/NZS

1580 Paints and related materials

1580.101.1 Method 101.1: Conditions of test—Temperature, humidity and airflow control

1580.101.3 Method 101.3: Standard procedures for stoving

1580.101.4 Method 101.4: Conditions of test—Temperature control

1580.101.5 Method 101.5: Conditions of test—Temperature and humidity control

3 APPARATUS The apparatus consists essentially of a horizontal sliding panel to which the test panel can be clamped and which can be moved, either manually or, alternatively, by means of a motor drive, at a rate of 30 to 40 mm/s, beneath the point of a scratching needle, the axis of which is normal to the surface of the test panel.

The needle shall have a tungsten-carbide hemispherical point of 1 ± 0.05 mm in diameter. It shall be fixed in a holder at the end of a counterpoised arm, which shall be provided with means by which a load can be applied to the needle.

A ramp sloping at approximately 12° , fixed to the sliding panel and a stop on the counterpoised arm shall be so arranged that the needle is held off the test film at the commencement of the stroke of the sliding panel and is gradually lowered on to it as the stroke proceeds. The length of the stroke shall be such that a scratch not less than 60 mm long can be obtained.

The apparatus may be equipped with an electrical means for indicating when the needle has penetrated through the film to the underlying metal test panel.