

Australian/New Zealand Standard™

Paints and related materials—Methods of test

Method 481.3: Coatings—Exposed to weathering—Degree of corrosion of coated metal substrates

AS 1580.481.3

1 SCOPE

This method describes the assessment of the degree of deterioration of a metal substrate that has been coated by a paint system and exposed to weathering. It is intended as a measure of the ability of a paint system to provide corrosion protection for a metal that has been exposed to an aggressive environment.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

1580	Paints and related materials—Methods of test
1580.457.1	Method 457.1: Resistance to natural weathering
1580.481.0	Method 481.0: Coatings—Guide to assessing paint systems exposed to weathering conditions

3 DEFINITIONS

For the purpose of this Standard, the definitions of AS/NZS 1580.481.0 and those below apply.

3.1 Type 1 corrosion

Corrosion not accompanied by blistering.

3.2 Type 2 corrosion

Corrosion accompanied by blistering.

4 PRINCIPLE

Coated test panels are exposed to a corrosive environment. The corrosion on the surface of the paint film and, where required, on the metal surface beneath the paint film is assessed by comparison with photographic reference standards.

The test panels may be scribed to determine the ability of the paint system to resist undercut corrosion.

5 APPARATUS AND MATERIALS

5.1 Reference standards

See Figures 1, 2 and 3.

5.2 Test panel

Coated test panel previously exposed by an appropriate method. The panel may or may not have a scribed line present on its surface.

5.3 Scraper

A rigid metal spatula or dull knife.