

Paints and related materials—Methods of test

Method 452.1: Resistance to humidity under condensation conditions

1 SCOPE

This Standard sets out a procedure for determining the resistance to humidity of a scored or unscored paint coating under water condensation conditions.

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: Conditions of test—Temperature, humidity and airflow control
1580.102.1	Method 102.1: Sampling procedure
1580.102.2	Method 102.2: In-process sampling
1580.103.1	Method 103.1: Examination and preparation of samples for test
1580.408.4	Method 408.4: Adhesion (cross-cut)
1580.481.1	Method 481.1: Coatings
1580.481.1.5	Method 481.1.5: Exposed to weathering—Change in gloss
1580.481.1.7	Method 481.1.7: Exposed to weathering—Degree of checking
1580.481.1.8	Method 481.1.8: Exposed to weathering—Degree of cracking
1580.481.1.9	Method 481.1.9: Exposed to weathering—Degree of blistering
1580.481.1.10	Method 481.1.10: Exposed to weathering—Degree of flaking and peeling
1580.481.1.11	Method 481.1.11: Exposed to weathering—Degree of chalking
1580.481.1.12	Method 481.1.12: Exposed to weathering—Degree of colour change
1580.481.3	Method 481.3: Coatings—Exposed to weathering—Degree of corrosion of coated metal substrates
2331	Method of test for metallic and related coatings
2331.1	Local thickness tests
2331.1.3	Method 2331.1.3: Magnetic method
2331.1.4	Method 2331.1.4: Magnetic induction and eddy current methods
2331.1.5	Method 2331.1.5: Beta-backscatter method

3 PRINCIPLE

A pair of coated test panels is placed for a nominated period inside a test cabinet, maintained at no less than 98% relative humidity (RH) and at a temperature varying continuously between 42°C and 48°C, for a nominated period and then examined for defects in the coating film.