

ISO 16053:2018 (E)

Paints and varnishes — Coating materials and coating systems for exterior wood — Natural weathering test

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Apparatus and materials
6	Sampling
7	Test panels
7.1	Wood
7.2	Preparation and selection of wood panels
7.3	Preparation of coated panels
7.3.1	Wood conditioning
7.3.2	Preparation of panels for the test coating
7.3.3	Preparation of panels for the Internal Comparison Product (ICP)
7.3.4	Sealing and ageing
7.3.5	Thickness of the coating
8	Procedure
8.1	General
8.2	Examination before exposure
8.3	Exposure
8.4	Examination after exposure
8.4.1	Examination on the exposure racks
8.4.2	Laboratory examination of unwashed panels
8.4.3	Laboratory examination of washed panels
9	Precision data
10	Expression of results and test report
Annex A	(normative) ICP alkyd stain
Annex B	(normative) Details of test methods
B.1	Gloss and change of gloss
B.2	Colour and colour change
B.3	Blistering
B.4	Flaking
B.5	Mould growth
B.6	Cracking
B.7	Chalking
B.8	General appearance
B.9	Adhesion
B.9.1	General
B.9.2	Apparatus
B.9.2.1	Cutting tool
B.9.2.2	Transparent pressure-sensitive adhesive tape

- B.9.3 Procedure
- B.10 Test for abnormally porous wood
- B.11 Test for heartwood in pine

Annex C (normative) Assessment requirements for panels of test coatings and ICP

Annex D (informative) Suggested format for a test report

Annex E (informative) Optional tests including variations to standard weathering test procedure to obtain additional information on coating performance

- E.1 Principle
- E.2 Tests on alternative wood substrates
- E.3 Tests with water trap 2 This test is based on Nordtest Build 229, 1989, Coating systems on exterior wood — Performance accelerated test.
 - E.3.1 Apparatus and materials
 - E.3.2 Preparation
 - E.3.3 Panel assessment
- E.4 Tests with back sealing of the panels

Annex F (informative) Explanatory notes

- F.1 Natural weathering test
- F.2 Validity of test reports
 - F.2.1 System
 - F.2.2 Climate and region

Annex G (informative) Precision data

Page count: 22