INTERNATIONAL STANDARD

ISO 16053

Third edition 2018-09

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

Peintures et vernis — Produits de peinture et systèmes de peinture pour bois en extérieur — Essai de vieillissement naturel



ISO 16053:2018(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents			Page
Fore	word		iv
1	Scope		1
2	Normative references		1
3	Terms and definitions		1
4	Principle		2
5	Apparatus and materials		2
6		ling	
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	4
		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 7.3.5	
_	_	o de la companya de	
8	Procedure		
	8.1	General Experimentian hafaya ayya ayya	
	8.2 8.3	Examination before exposure Exposure	
	8.4	Exposure Examination after exposure	
	0.1	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	Preci	sion data	7
10	Expre	ssion of results and test report	7
Ann	ex A (no	mative) ICP alkyd stain	8
Ann	ex B (no	rmative) Details of test methods	10
Ann	ex C (noi	mative) Assessment requirements for panels of test coatings and ICP	13
Ann	ex D (inf	ormative) Suggested format for a test report	14
Anno		ormative) Optional tests including variations to standard weathering test dure to obtain additional information on coating performance	17
Ann	ex F (info	ormative) Explanatory notes	20
Ann	ex G (inf	ormative) Precision data	21
Rihli	iography		22

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 16053:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- precision data are added in <u>Annex G</u>;
- using the multi-blade cutting tool for cross-cut test is allowed.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.