

Paints and varnishes - Laboratory method for testing the efficacy of film preservatives in a coating against fungi

EESTI STANDARDI EESSÕNA

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ICS 87.040

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English Version

Paints and varnishes - Laboratory method for testing the efficacy of film preservatives in a coating against fungi

Peintures et vernis - Méthode d'essai en laboratoire permettant de déterminer l'efficacité des préservateurs du feuillet d'un revêtement contre les champignons

Beschichtungsstoffe - Laborverfahren für die Prüfung der Wirksamkeit von Filmkonservierungsmitteln in einer Beschichtung gegen Pilze

This European Standard was approved by CEN on 3 January 2022.

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European foreword

This document (EN 15457:2022) has been prepared by Technical Committee CEN/TC 139 “Paints and varnishes”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15457:2014.

The main changes compared to EN 15457:2014 are as follows:

- a) new terms and definitions have been added;
- b) the use of terms and definitions throughout the document has been corrected;
- c) the procedure in 8.4 has been corrected: the suspension is spread out onto the test specimen;
- d) Figure A.1 has been corrected in accordance with corrected procedure in 8.4;
- e) the document has been editorially revised and the normative references have been updated.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

This document identifies criteria to assess efficacy of film preservatives in a coating against fungi. The results of the method allow evaluation of an active substance with regard to its inclusion in Annex I of the Biocidal Product Regulation 528/2012 (Regulation EU No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the placing of biocidal products on the market – BPR).

The characteristics of the biocide treated coating material should conform to national regulations with regard to health, safety and the environment.

1 Scope

This document specifies a laboratory test method for determining the biocidal or biostatic efficacy of single active substances or combinations thereof used in film preservatives of coatings against fungal growth. This document does not apply to coatings unsusceptible to fungal growth. The test method covers only active substances for film preservation. It does not indicate the efficacy of the coating film to protect itself or an underlying material. The test method is applicable for active substances used for the protection of wood and masonry coatings. It is not applicable to marine coatings.

Safety, health and environmental aspects are not in the scope of this document.

Determination of the performance of film preservatives in coatings by applying ageing procedures is not within the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12469, *Biotechnology - Performance criteria for microbiological safety cabinets*

EN 16492:2014, *Paints and varnishes - Evaluation of the surface disfigurement caused by fungi and algae on coatings*

EN 23270, *Paints and varnishes and their raw materials - Temperatures and humidities for conditioning and testing (ISO 3270)*

EN ISO 1513, *Paints and varnishes - Examination and preparation of test samples (ISO 1513)*

EN ISO 15528, *Paints, varnishes and raw materials for paints and varnishes - Sampling (ISO 15528)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

active substance

substance or micro-organism that has an action on or against harmful organisms

[SOURCE: Biocidal Product Regulation (BPR, Regulation (EU) 528/2012), Article 3.1 (c), modified – the article “a” between “or” and “micro-organism” was deleted]

3.2

sample

portion of coating material to be tested