

**Paints and varnishes - Laboratory method for  
determination of release of regulated dangerous  
substances from coatings in intermittent contact with  
water**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 16105:2011 sisaldab Euroopa standardi EN 16105:2011 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 31.10.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 28.09.2011.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 16105:2011 consists of the English text of the European standard EN 16105:2011.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 28.09.2011.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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ICS 87.040

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ICS 87.040

English Version

## Paints and varnishes - Laboratory method for determination of release of substances from coatings in intermittent contact with water

Peintures et vernis - Méthode de laboratoire pour la détermination de la libération de substances provenant de revêtements en contact avec l'eau par intermittence

Beschichtungsstoffe - Laborverfahren zur Bestimmung der Freisetzung von Substanzen aus Beschichtungen in intermittierenden Kontakt mit Wasser

This European Standard was approved by CEN on 13 August 2011.

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## Foreword

This document (EN 16105:2011) 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of an identical text or by endorsement, at the latest by March 2012, and conflicting national standards shall be withdrawn at the latest by March 2012.

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## **Introduction**

Leaching of substances from coatings into water needs to be quantified to enable an environmental risk assessment for the use of substances in coating materials. Substances can be leached from coatings, particularly by driving rain, and transferred into the environment.

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## 1 Scope

This European Standard specifies a laboratory method to determine the leaching behaviour of substances from coatings into water over defined time intervals.

The release of substances from coatings under natural conditions cannot be determined with this method.

## 2 Normative references

The following referenced documents are indispensable for the application 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 23270, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing (ISO 3270:1984)*

EN ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling (ISO 15528:2000)*

## 3 Terms and definitions

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

### 3.1

#### **substance**

single chemical element or compound, or a complex structure of compounds, that is contained in the coating and can potentially be extracted from the coating via water contact

### 3.2

#### **target substance**

substances to be tested according to 6.3.2

NOTE One or more target substances may be defined. For example, biocides can be the target substances (see Annex B).

### 3.3

#### **biocide**

additive added to a coating material to prevent organisms responsible for microbiological degradation from attacking a coating material or a film thereof

[EN ISO 4618:2006]

NOTE A list of biocides is given in Annex I and IA of the Biocidal Products Directive 98/8/EC (Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market – BPD).

### 3.4

#### **coating**

continuous layer formed from a single or multiple application of a coating material to a substrate

[EN ISO 4618:2006]