

**Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 3: Determination and classification of liquid-water transmission rate (permeability)**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1062-3:2001 sisaldab Euroopa standardi EN 1062-3:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1062-3:2001 consists of the English text of the European standard EN 1062-3:1998.</p> <p>This document is endorsed on 18.06.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard specifies a method for determining the liquid-water transmission rate of coatings, coating systems and related products, intended for exterior masonry and concrete. The method is applicable to coatings and coating systems on porous substrates such as brick, concrete and renderings.</p>	<p><b>Scope:</b></p> <p>This European Standard specifies a method for determining the liquid-water transmission rate of coatings, coating systems and related products, intended for exterior masonry and concrete. The method is applicable to coatings and coating systems on porous substrates such as brick, concrete and renderings.</p>
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ICS 87.040

**Võtmesõnad:** classifications, concrete, determination, exteriors, masonry works, paints, protective coatings, test specimen, tests, varnishes, water permeability

ICS 87.040

Descriptors: Coating materials, masonry, concrete, permeability, testing.

**English version**

Paints and varnishes

**Coating materials and coating systems for exterior  
masonry and concrete**

**Part 3: Determination and classification of liquid-water transmission rate  
(permeability)**

Peintures et vernis – Produits de  
peinture et systèmes de revêtements  
pour maçonnerie et béton exté-  
rieurs – Partie 3: Détermination et  
classification de la perméabilité à  
l'eau liquide

Lacke und Anstrichstoffe – Beschich-  
tungsstoffe und Beschichtungs-  
systeme für mineralische Untergründe  
und Beton im Außenbereich – Teil 3:  
Bestimmung und Einteilung der  
Durchlässigkeitsrate für flüssiges  
Wasser (Permeabilität)

This European Standard was approved by CEN on 1998-10-09.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

## Foreword

This European Standard 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 April 1999, and conflicting national standards shall be withdrawn at the latest by April 1999.

EN 1062 consists of the following parts under the general title : Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete

Part 1 : Classification

Part 2 : Determination and classification of water-vapour transmission rate (permeability) <sup>1)</sup>

Part 3 : Determination and classification of liquid-water transmission rate (permeability)

Part 6 : Determination of carbon dioxide permeability

Part 7 : Determination of crack-bridging properties - Test methods and classification

Part 11 : Methods for conditioning and testing

<sup>1)</sup> Published as EN ISO 7783-2

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

This European standard deals with test methods for coating materials and coating systems for masonry and concrete. It should be read in conjunction with EN 1062-1.

## 1 Scope

This European Standard specifies a method for determining the liquid-water transmission rate of coatings, coating systems and related products, intended for exterior masonry and concrete.

The method is applicable to coatings and coating systems on porous substrates such as brick, concrete and renderings.

The method is not applicable to coatings and coating systems having a coefficient of liquid-water transmission rate  $w$  of less than  $0,05 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$ .

## 2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1062-1	1996	Paints and varnishes – Coating materials and coating systems for exterior masonry and concrete – Part 1: Classification
EN 21512		Paints and varnishes – Sampling of products in liquid or paste form (ISO 1512 : 1991)
EN 23270		Paints and varnishes and their raw materials – Temperatures and humidities for conditioning and testing (ISO 3270 : 1984)
EN ISO 1513		Paints and varnishes – Examination and preparation of samples for testing (ISO 1513 : 1992)

## 3 Principle

Exterior masonry coatings play an important role in preventing rain water penetrating into porous mineral substrates. This transmission rate for liquid water is evaluated using blocks of highly porous mineral substrates which are coated by the coating or coating system on one of their faces. The test specimens are immersed under controlled conditions in water and weighed at suitable intervals of time. The liquid-water transmission rate is determined from the change in mass when this change has become directly proportional to the square root of the time.