

Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 3: Determination of liquid water permeability

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English Version

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

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

Beschichtungsstoffe - Beschichtungsstoffe und
Beschichtungssysteme für mineralische Substrate und
Beton im Außenbereich - Teil 3: Bestimmung der
Wasserdurchlässigkeit

This European Standard was approved by CEN on 25 November 2007.

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Foreword

This document (EN 1062-3:2008) 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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

This document supersedes EN 1062-3:1998.

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Introduction

This document is one of a number of parts of EN 1062 dealing with test methods for coating materials and coating systems for exterior 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 permeability of coatings, coating systems and related products, intended for exterior masonry and classification according to EN 1062-1.

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

A liquid water permeability w of more than $0,5 \text{ kg}/(\text{m}^2 \times \text{h}^{0,5})$ will not be accurately quantified by the test method described in this standard.

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 1062-1, *Paints and varnishes — Coating materials and coating systems for exterior masonry and concrete — Part 1: Classification*

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)*

EN ISO 15148, *Hygrothermal performance of building materials and products — Determination of water absorption coefficient by partial immersion (ISO 15148:2002)*

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

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 permeability is determined by the change in mass.

4 Apparatus

4.1 Container of suitable size, for deionized water or fresh tap water (potable water), provided with supports for the test specimens.

4.2 Oven capable of being maintained at a temperature of $(50 \pm 2) ^\circ\text{C}$.

4.3 Balance, capable of weighing 2 000 g to 0,1 g.