
**Paints and varnishes — Coating materials
and coating systems for exterior masonry
and concrete —**

Part 2:

Determination and classification of
water-vapour transmission rate (permeability)

*Peintures et vernis — Produits de peinture et systèmes de revêtement pour
maçonnerie et béton extérieurs —*

*Partie 2: Détermination et classification du taux de transmission de
la vapeur d'eau (perméabilité)*



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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7783-2 was prepared by the European Committee for Standardization (CEN) in collaboration with ISO Technical Committee TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Throughout the text of this standard, read "...this European Standard..." to mean "...this International Standard...".

ISO 7783 consists of the following parts, with the titles:

- *Paints and varnishes — Determination of water-vapour transmission rate — Part 1: Dish method for free films*
- *Paints and varnishes — Coating materials and coating systems for exterior masonry and concrete — Part 2: Determination and classification of water-vapour transmission rate (permeability)*

© ISO 1999

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

Foreword

The text of EN ISO 7783-2:1999 has been prepared by Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 35 "Paints and varnishes".

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 1999, and conflicting national standards shall be withdrawn at the latest by September 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) ¹⁾

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

¹⁾ Published as EN ISO 7783-2

Due to the broad field of application of part 2 of this series of Standards, it was published as International Standard ISO 7783-2 and implemented 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 water-vapour 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.

NOTE 1: The method is also applicable to the determination of the water-vapour transmission rate of coatings and coating systems intended for other substrates.

The procedure using a porous substrate is not applicable for coatings having dry film thicknesses less than 80 µm as determined by calculation.

NOTE 2: Some products, normally of low viscosity and/or very low solids content, that do not form films, or abnormally affect the porosity of porous substrates, should not be included when the water-vapour transmission rate of coating systems is determined. Their effect in practical situations should be agreed between the interested parties.

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.