
Paints and varnishes - Coating materials and coating systems for exterior wood -
Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV and
water

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English version

**Paints and varnishes - Coating materials and coating systems
for exterior wood - Part 6: Exposure of wood coatings to artificial
weathering using fluorescent UV and water**

Peintures et vernis - Produits de peinture et systèmes de
peinture pour le bois en extérieur - Partie 6 : Xxx

Beschichtungsstoffe - Beschichtungsstoffe und
Beschichtungssysteme für Holz im Außenbereich - Teil 6:
Künstliche Bewitterung von Holzbeschichtungen durch
fluoreszierende UV-Strahlung und Wasser

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 139.

If this draft becomes a European Standard, 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (prEN 927-6:2004) has been prepared by Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

EN 927 consists of the following parts under the general title "*Paints and varnishes — Coating materials and coating systems for exterior wood*":

- *Part 1: Classification and selection;*
- *Part 2: Performance specification¹⁾;*
- *Part 3: Natural weathering test;*
- *Part 4: Assessment of the water-vapour permeability;*
- *Part 5: Assessment of the liquid water permeability.*

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1) European pre-standard (ENV)

Introduction

Coatings from paints, varnishes and similar materials are weathered in the laboratory, in order to simulate ageing processes occurring during natural weathering. Generally, valid correlation between ageing during artificial and natural weathering cannot be expected because of the large number of influencing factors. Certain relationships can only be expected if the effect of the important parameters (spectral distribution of the irradiance in their photochemically relevant range, temperature of the specimen, type of wetting, wetting cycle relative humidity) on the coating is known. However, unlike natural weathering, testing in the laboratory is carried out taking into consideration a limited number of variables which can be controlled and therefore the results are more reproducible.

1 Scope

This part of EN 927 specifies a method for determining the resistance of wood coatings to artificial weathering in apparatus equipped with fluorescent UV lamps, condensation and water spray.

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 927-1, *Paints and varnishes — Coating materials and coating systems for exterior wood — Part 1: Classification and selection*.

EN ISO 2409, *Paints and varnishes — Cross-cut test*.

EN ISO 2808, *Paints and varnishes — Determination of film thickness*.

EN ISO 2813, *Paints and varnishes — Determination of specular gloss of non-metallic paint films at 20°, 60° and 85° (ISO 2813:1994, including Technical Corrigendum 1:1997)*.

EN ISO 3696:1995, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*.

EN ISO 4628-1, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 1: General introduction and designation system (ISO 4628-1:2003)*.

EN ISO 4628-2, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 2: Assessment of degree of blistering (ISO 4628-2:2003)*.

EN ISO 4628-4, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 4: Assessment of degree of cracking (ISO 4628-4:2003)*.

EN ISO 4628-5, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 5: Assessment of degree of flaking (ISO 4628-5:2003)*.

EN ISO 4628-6, *Paints and varnishes — Evaluation of degradation of paint coatings — Designation of intensity, quantity and size of common types of defect - Part 6: Rating of degree of chalking by tape method (ISO 4628-6:1990)*.

EN ISO 11507:200x, *Paints and varnishes — Exposure of coatings to artificial weathering — Exposure to fluorescent UV and water*.