

STN	Náterové látky Náterové látky a náterové systémy na drevo používané vo vonkajšom prostredí Časť 2: Špecifikácie	STN EN 927-2 67 2010
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Paints and varnishes - Coating materials and coating systems for exterior wood - Part 2: Performance specification

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/23

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English Version

**Paints and varnishes - Coating materials and coating
systems for exterior wood - Part 2: Performance
specification**

Peintures et vernis - Produits de peinture et systèmes
de peinture pour le bois en extérieur - Partie 2:
Spécifications de performance

Beschichtungsstoffe - Beschichtungsstoffe und
Beschichtungssysteme für Holz im Außenbereich - Teil
2: Leistungsanforderungen

This European Standard was approved by CEN on 16 October 2022.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 14 December 2022.

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 CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 927-2:2022) 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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 927-2:2014.

The following significant technical changes have been made with respect to EN 927-2:2014:

- a) test profiles for the three main end-use categories (as specified in EN 927-1) have been updated to include additional test methods;
- b) Existing test methods (5.2) have been updated to include additional methods and 5.3 (Test methods in preparation) has been deleted.

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 specification*
- *Part 3: Natural weathering test*
- *Part 5: Assessment of the liquid water permeability*
- *Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water*
- *Part 7: Assessment of knot staining resistance of wood coatings*
- *Part 8: Determination of the adherence of paint on wood by means of a double X-cut test¹*
- *Part 9: Determination of pull-off strength after water exposure¹*
- *Part 10: Resistance to blocking of paints and varnishes on wood*
- *Part 11: Assessment of air inclusions/microfoam in coating films*
- *Part 12: Ultraviolet and visible radiation transmittance*
- *Part 13: Assessment of resistance to impact of a coating on a wooden substrate*
- *Part 14: Determination of tensile properties of coating films*

¹ This document has been published as a CEN/TS in 2020.

EN 927-2:2022 (E)

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document is one of a number of parts of EN 927. EN 927-1 addresses the issue of terminology for the wide variety of exterior coatings for wood that are now available. EN 927-1 also provides a framework for communicating information on the suitability of a coating for particular specific end-use categories. Improved communication is beneficial in the removal of technical barriers to trade. However, there remains the problem of comparing products tested, or likely to be exposed, in different climatic regions, and the relevance of tests for different categories of end-use. This document addresses these issues and sets a limited number of mandatory performance criteria combined with optional tests that can provide additional information to a standardized format.

EN 927-2:2022 (E)**1 Scope**

This document addresses performance criteria for coating systems on exterior wood. Performance requirements are specified according to three categories of end use (defined in EN 927-1) in terms of two mandatory tests, namely natural weathering performance testing carried out in accordance with EN 927-3, and water permeability in accordance with EN 927-5. Additional optional tests (non-mandatory) are tabled which can be used by suppliers, or for specification purposes, to provide additional information, to a standardized format, on aspects of performance relevant to specific situations. The majority of test methods are drawn from EN 927 (all parts), but where relevant additional tests from other national and international sources are used.

Requirements for claiming conformity with this document are specified and provide flexibility for different situations and can also provide a basis for certification.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 927-1:2013, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 1: Classification and selection*

EN 927-3:2019, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 3: Natural weathering test*

EN 927-5, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 5: Assessment of the liquid water permeability*

EN 927-6, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water*

EN 927-7, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 7: Assessment of knot staining resistance of wood coatings*

CEN/TS 927-8, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 8: Determination of the adhesion on wood after water exposure by a double-X-cut test*

CEN/TS 927-9, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 9: Determination of pull-off strength after water exposure*

EN 927-10, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 10: Resistance to blocking of paints and varnishes on wood*

EN 927-11, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 11: Assessment of air inclusions/microfoam in coating films*

CEN/TS 927-12:—², *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 12: Ultraviolet and visible radiation transmittance*

² Under preparation. Stage at the time of publication: FprCEN/TS 927-12:2022.

EN 927-13, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 13: Assessment of resistance to impact of a coating on a wooden substrate*

EN 927-14:—³, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 14: Determination of tensile properties of coating films*

EN 16492, *Paints and varnishes - Evaluation of the surface disfigurement caused by fungi and algae on coatings*

CEN/TS 16360, *Paints and varnishes - Coating materials and coating systems for exterior wood - Assessment of film extensibility by indentation of a coating on a wooden substrate*

CEN/TS 16498, *Paints and varnishes - Coating materials and coating systems for exterior wood - Assessment of tannin staining*

CEN/TS 16969, *Paints and varnishes - Coating materials and coating systems for exterior wood - Assessment of end grain sealing performance*

EN ISO 4618, *Paints and varnishes - Terms and definitions (ISO 4618)*

EN ISO 7783, *Paints and varnishes - Determination of water-vapour transmission properties - Cup method (ISO 7783)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

³ Under preparation. Stage at the time of publication: FprEN 927-14:2022.