



BSI Standards Publication

**Paints and varnishes —
Coating materials and coating
systems for exterior wood
— Assessment of end grain
sealing performance**

National foreword

This Published Document is the UK implementation of CEN/TS 16969:2016.

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Paints and varnishes - Coating materials and coating systems for exterior wood - Assessment of end grain sealing performance

Peintures et vernis - Produits de peinture et systèmes de peinture pour bois en extérieur - Évaluation des performances du colmatage des bois de bout

Beschichtungsstoffe - Beschichtungsstoffe und Beschichtungssysteme für Holz im Außenbereich - Beurteilung des Leistungsverhaltens von Hirnholzversiegelungen

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (CEN/TS 16969:2016) has been prepared by Technical Committee CEN/TC 139 “Paints and varnishes”, the secretariat of which is held by DIN.

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1 Scope

This Technical Specification specifies a test method to evaluate the ability of coating materials to seal the end grain of wood against ingress of water.

This procedure is relevant for joinery or wood based cladding materials whose service life can depend on the control of water penetration through the coated end-grain.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 927-5:2006, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 5: Assessment of the liquid water permeability*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 4618 and the following apply.

3.1 water absorption

ability of a coated or uncoated wood sample to absorb water from liquid or vapour

[SOURCE: EN 927-5:2006, 3.1]

3.2 water permeability

ability of a coating system to allow the transmission of water as liquid or vapour

[SOURCE: EN 927-1:2013, 3.13]

3.3 stable mass

mass achieved when the difference between two subsequent weighings within 24 h does not exceed 0,2 %

[SOURCE: EN 927-5:2006, 3.3]

3.4 end grain sealer

system applied on the end grain

4 Principle

Water permeability is assessed by measuring the water uptake over a 72 h period of coated test pieces exposed to liquid water. The coating under test is applied to the end grain surface of a defined test piece where the remaining sides are carefully sealed using a sealer of a defined mandatory low water