

Durability of wood and wood-based products - Performance criteria for products for curative uses against wood attacking organisms as determined by biological tests

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against wood attacking organisms as determined by
biological tests

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14128:2004 sisaldab Euroopa standardi EN 14128:2003 ingliskeelset teksti.	This Estonian standard EVS-EN 14128:2004 consists of the English text of the European standard EN 14128:2003.
Käesolev dokument on jõustatud 18.05.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 18.05.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This European Standard specifies the minimum performance requirements in biological tests for products for curative uses against specific wood destroying organisms. It specifies the biological tests required together with the performance criteria to be achieved in each test.	Scope: This European Standard specifies the minimum performance requirements in biological tests for products for curative uses against specific wood destroying organisms. It specifies the biological tests required together with the performance criteria to be achieved in each test.
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ICS 71.100.50, 79.040

Võtmesõnad: aging, classifications, effectiv, effectiveness, hazard classes, hazards, materials, permanency, pest control, pesticides, specification, specification (approval), specifications, wood, wood based products, wood destroying, wood preservatives, wood-boring organisms

ICS 71.100.50; 79.040

English version

**Durability of wood and wood-based products - Performance
criteria for curative wood preservatives as determined by
biological tests**

Durabilité du bois et des matériaux dérivés du bois -
Critères de performances des produits curatifs de
préservation du bois établis par des essais biologiques

Dauerhaftigkeit von Holz und Holzprodukten -
Anforderungen an bekämpfend wirkende Holzschutzmittel,
wie sie durch biologische Prüfungen ermittelt werden

This European Standard was approved by CEN on 1 October 2003.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 14128:2003) has been prepared by Technical Committee CEN/TC 38 "Durability of wood and wood-based products", the secretariat of which is held by AFNOR.

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 June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

This European Standard gives the performance criteria for curative wood preservatives as determined by biological tests. A further European Standard (at present still in preparation) is concerned with criteria for hot air processes for curative uses against wood destroying organisms.

This European Standard is valid for products to eradicate beetles in infested wood and for products to be used in the course of curative actions against the dry rot fungus to prevent its growth through masonry and beyond.

The annexes B and C are normative.

The annexes A, D, E and F are informative.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard should be used in conjunction with prEN WI 00038084 (at present still in preparation) and with EN 599-1 which describes the performance requirements for preventive wood preservatives as determined by biological tests.

The need to use curative products against wood destroying organisms depends upon a careful diagnosis by expert, qualified specialists to determine the precise causes of the damage to be rectified. This should include the type of wood attacking organisms involved and whether they are active, the environmental circumstances, especially the source and nature of any wetting, the type of wood involved, the nature of the building or construction, and the structural and physical significance of the timber which is damaged or at risk of being damaged.

Curative treatment can be achieved either by chemical wood preservatives as specified in this European Standard or by specific curative processes without using chemicals, like hot air processes, as given in prEN WI 00038084.

Curative wood preservative products should be used in an integrated way as part of a carefully prescribed strategy involving a series of actions appropriate to the particular circumstances of each case. Associated physical measures involving appropriate building works to remedy ingress of moisture and to dry out any dampness can be an essential prerequisite for the use of any curative products. Expert diagnosis should take into account all regional, practical, environmental, economical, safety and any other factors which can be relevant to the prescriptive decisions to be taken.

It is not the purpose of this European Standard to provide a specification, or even guidance in developing specifications for remedial work to eradicate wood destroying organisms. This European Standard also does not give guidance on the methods of application or the precise amounts of products that might be appropriate to apply in specific practical circumstances. It is intended to guide specifiers, users and others in selecting and specifying products on the basis of their effectiveness as demonstrated in accordance with the criteria given.

1 Scope

This European Standard specifies the minimum performance requirements in biological tests for products for curative uses against specific wood destroying organisms. It specifies the biological tests required together with the performance criteria to be achieved in each test.

Chemicals against insects can act according to their specific properties within a short time (fast acting) or only after a long period (slow acting or with a deferred effect). Different tests and performance requirements are needed for these various types of curative wood preservatives.

This European Standard is applicable to all wood preservative products supplied for application in liquid form for curative uses against attack by wood attacking insects, excluding termites. This European Standard is also applicable for products applied to prevent growth of dry rot fungus through masonry.

This European Standard is also applicable to products for curative uses supplied for application as pastes, solids or in capsule form but only where appropriate biological methods of test exist as published European Standards or as normative annexes to this European Standard.

NOTE 1 The nature of the laboratory tests required in this European Standard is such that the time required to generate data is many months sometimes more than one year, depending upon the type of product and the organism(s) it is intended to be used against.

Therefore, at the date of publication of this European Standard, for many products covered under its scope already placed on the market and used lawfully in accordance with local technical traditions, the minimum data specified in this standard may not be available. Accordingly, for a period not exceeding 3 years from the date of publication of this European Standard, national standards organisations, or an organisation nominated by them may declare interim effective values for use within their territories, to apply to products already placed on the market and used lawfully in accordance with local traditions at the date of use of this European Standard.

NOTE 2 For re-testing after making variations in product formulation, guidance is given in annex A.

This European Standard is not applicable to products used as fumigants.

This European Standard is also not applicable for determining whether specific curative products, used alone or in combination, are effective in conferring long-term preventive action against attack by wood destroying organisms in the future. Preventive effectiveness can be determined using EN 599-1 but only for products whose nature allow them to be tested using the methods and interpretative procedures defined in EN 599-1. Amendments of existing test methods cited in EN 599-1 may be used but only when defined in normative annexes to this European Standard.

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 (including amendments).

EN 22, *Wood preservatives – Determination of eradicant action against Hylotrupes bajulus (Linnaeus) larvae (Laboratory method)*.

EN 48, *Wood preservatives – Determination of the eradicant action against larvae of Anobium punctatum (De Geer) (Laboratory method)*.

EN 73, *Wood preservatives – Accelerated ageing tests of treated wood prior to biological testing – Evaporative ageing procedure*.

EN 370, *Wood preservatives – Determination of eradicant efficacy in preventing emergence of Anobium punctatum (De Geer)*.

EN 599-1:1996, *Durability of wood and wood-based products – Performance of preventive wood preservatives as determined by biological tests – Part 1: Specification according to hazard class*.

ENV 1390, *Wood preservatives – Determination of the eradicant action against Hylotrupes bajulus (Linnaeus) larvae – Laboratory method*.

ENV 12404, *Durability of wood and wood-based products – Assessment of the effectiveness of a masonry fungicide to prevent growth into wood of Dry Rot Serpula lacrymans (Schumacher ex Fries) S.F Gray – Laboratory method*.

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

active ingredient

individual chemical compound or compounds included in the wood preservative product to give it a specific activity against the particular biological agencies of deterioration

3.2

barrier treatment

treatment of masonry in case of dry rot fungus to avoid its growth beyond the treated zone

3.3

biological reference value (brv)

amount in grams per square meter or kilograms per cubic meter of the wood preservative product found to be effective in test in eradicating attack by the particular biological agency being tested

3.4

curative efficacy

specific property of a wood preservative to act as an eradicant in infested timber

3.5

deferred effect insecticidal products

insect curative products which are not designed to have an immediate effect on the target organisms but which are designed to have their full eradicant effect at a later stage in the life cycle e.g. at the time of emergence from the wood

3.6

effective value

amount of wood preservative in millilitres per square meter obtained from all biological tests carried out in accordance with this European Standard. It is the highest of the brvs for the curative effectiveness of the product from all the tests carried out to support the claimed activity of the product

3.7

fast acting insecticidal products

insect curative products which achieve the required level of effectiveness within a period of three months using the appropriate standard test method

3.8

maximum application limit

maximum amount in millilitres per square meter of the wood preservative product permitted for application to the wood specimens in the particular biological test