

norm**NEN-EN 14128**

Duurzaamheid van hout en op hout gebaseerde producten - Prestatie-eisen voor curatieve houtverduurzamingsmiddelen op basis van biologische beproevingen

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

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Voorbeeld
Preview

August 2018

ICS 71.100.50

Will supersede EN 14128:2003

English Version

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

Durabilité du bois et des matériaux dérivés du bois -
Efficacité 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

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Preview

prEN 14128

prEN 14128:2018 (E)**European foreword**

This document (prEN 14128:2018) has been prepared by Technical Committee CEN/TC 38 “Durability of wood and wood-based panels”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This European Standard gives the performance criteria for curative wood preservatives as determined by biological tests. A European Technical Report (CEN/TR 15003) is concerned with criteria for hot air processes for curative uses against wood destroying organisms.

This European Standard is valid for products to eradicate wood boring 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.

This document will supersede EN 14128:2003.

Compared to current EN 14128, the following modifications have been made:

- a) Clause 6: the limits of the application rates of the fungicide solution have been removed;
- b) Table 1: criterion for effective value changed to criterion for brv. Table re-organised;
- c) clauses and sub-clauses contained in 8.2 Product classification; 8.3 and 8.4 Product description; 8.5 and 8.6 Product labelling, have been merged in 8.2 Product labelling;
- d) Annex B and C merged and changed from normative to informative;
- e) Annexes D and F are deleted.

Introduction

This European Standard should be used in conjunction 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 CEN/TR 15003.

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.

prEN 14128:2018 (E)**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 efficacy 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 efficacy 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 boring beetles. This European Standard is also applicable for products applied to prevent the growth of the 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 For re-testing after making variations in product formulation, guidance is given in Annex A.

NOTE 2 This standard is used as a reference document for the evaluation of efficacy of biocidal products PT8 (wood preservatives) in the framework of the European Regulation on Biocidal Products (EU) No 528/2012 (BPR).

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 protection against attack by wood destroying organisms. Preventive effectiveness can be determined using EN 599-1 but only for products that can be tested using the methods and interpretative procedures defined in EN 599-1.

Annex A (informative) contains a guidance on re-testing after making variations in product formulation.

Annex B (informative) contains some test recommendations for specific curative products against other insect species than *Hylotrupes bajulus* and *Anobium punctatum*.

Annex C (informative) contains a guidance for physical chemical properties.

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 48, *Wood preservatives — Determination of eradicant action against larvae of Anobium punctatum (De Geer) (laboratory method)*

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

EN 599-1:2009+A1:2013, *Durability of wood and wood-based products — Efficacy of preventive wood preservatives as determined by biological tests — Part 1: Specification according to use class*

EN 1390, *Wood preservatives — Determination of the eradicant action against Hylotrupes bajulus (Linnaeus) larvae — Laboratory method*

CEN/TS 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 document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

active ingredient

individual chemical compound or compounds included in a wood preservative to give it specific activity against biological agents of deterioration

3.2

barrier treatment

treatment of masonry in case of dry rot fungus infection, 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 the infection by the particular biological agent being tested

Note 1 to entry: The application rate is expressed as grams per square meters in the case of curative products.

3.4

curative efficacy

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

3.5

deferred effect

eradicator effect which is not immediate but occurs at a later stage in the life cycle

Note 1 to entry: In laboratory tests the curative effect is shown in a period of more than 26 weeks and up to the test period defined in the relevant standard.

EXAMPLE 1 A product coming into contact with the larval stage of the target insect species and having an effect on the nymphal or adult stage, thus preventing the emergence of the insect from the wood and its further dissemination.

EXAMPLE 2 A product with a very low concentration of active ingredient, which needs to be bio-accumulated by the larvae during more than 6 months in the lab test in order to cause their death.

3.6

effective value

amount in grams per square meter of the wood preservative corresponding to the highest of the brvs obtained in all the tests carried out in accordance with this European Standard to support the claimed efficacy of the product

3.7

fast acting

curative products which achieve the required level of effectiveness within a period of three months in the lab test

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