



SLOVENSKI STANDARD
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Paints and varnishes - Guide for the classification and selection of coating systems for wood based materials in furniture for interior use

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Beschichtungsstoffe - Leitfaden für die Einteilung und Auswahl von Beschichtungssystemen für Holzmöbel im Innenbereich

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Peintures et vernis - Guide de classification et de sélection des systemes de peinture pour matériaux a base de bois dans le mobilier d'intérieur

Ta slovenski standard je istoveten z: EN 15060:2006

ICS:

87.040 Barve in laki Paints and varnishes

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EUROPEAN STANDARD

EN 15060

NORME EUROPÉENNE

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English Version

Paints and varnishes - Guide for the classification and selection of coating systems for wood based materials in furniture for interior use

Peintures et vernis - Guide de classification et de sélection des systèmes de peinture pour matériaux à base de bois dans le mobilier d'intérieur

Beschichtungsstoffe - Leitfaden für die Einteilung und Auswahl von Beschichtungssystemen für Holzmöbel im Innenbereich

This European Standard was approved by CEN on 26 June 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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

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Foreword

This document (EN 15060:2006) 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 February 2007, and conflicting national standards shall be withdrawn at the latest by February 2007.

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

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Introduction

The purpose of this guide is to provide a tool for both a furniture manufacturer and paint and varnish manufacturer, when trying to define the product needed by the furniture manufacturer and/or offered by the paint and varnish manufacturer.

This guide is a working document to be completed jointly by a furniture manufacturer and his or her supplier and may be used in the following two ways:

When used by a furniture manufacturer:

The furniture manufacturer can define the coating system he or she needs, by defining what kind of furniture he or she makes, kind of surface to finish, etc. This is achieved by putting a cross in the table in clause 6 of this guide: details of intended use and function, i.e. he or she needs a paint to finish a working surface in the domestic furniture he or she manufactures.

Then, the manufacturer can define the properties of the coating system he or she needs (e.g. resistance to cold liquids). Of course, he or she can be helped by the paint manufacturer in this definition. When defining the properties and their values, European Standards should be used, but if they do not exist, another reference document can be used (i.e. International or National standards, etc).

The surface to be coated has to be defined as in clause 4.5, as well as the appearance needed (see 4.6).

The application system has to be defined (see 4.3) and the drying and curing process (see 4.4) that the furniture manufacturer intends to use for each of the coats.

For this information, the paint and varnish manufacturer can recommend to the furniture manufacturer another application method, etc.

With all this data, the paint and varnish manufacturer is able to provide the name of his or her products (for each coat of the coating system: primer, stain, undercoat, filler, and topcoat, if all are needed) and their wet properties. Those are the products that the paint and varnish manufacturer is offering to the furniture manufacturer to satisfy what he or she needs.

When used by a paint and varnish manufacturer:

A paint and varnish manufacturer can offer a product to a furniture manufacturer by fulfilling this guide from the beginning:

For Table 1, the paint and varnish manufacturer will start by writing the name and characteristics of their products and then will continue with their performances and a description of the application systems, and so on, to end at the last point.

This is useful information provided by a paint and varnish manufacturer to a furniture manufacturer: those products, when combined and applied on a surface as defined, make a coating system with those properties, suitable for this kind of furniture and this kind of surface, etc.

EN 15060-1:2006 (E)**1 Scope**

This document provides guidance for the information to be provided by a furniture manufacturer to paint and varnish suppliers and the information to be provided by a paint and varnish supplier to furniture manufacturers, in order to assist in the selection of coating materials and coating systems for wood-based material in furniture for interior use.

This standard should be a reference document to be used with the test methods and specifications of the different types of furniture.

NOTE For the purpose of this guide, wood-based materials with modified surfaces are included in this document (laminates, etc.)

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 13721, *Furniture — Assessment of the surface reflectance*

EN 13722, *Furniture — Assessment of the surface gloss*

EN ISO 4618:2006, *Paints and varnishes — Terms and definitions (ISO 4618:2006)*

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3 Terms and definitions

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For the purposes of this European Standard, the terms and definitions given in EN ISO 4618:2006 apply.

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4 Classification and designation

4.1 Wet properties of each coat of the coating system

Fill in the blanks with the adequate information, when appropriate. See examples in Annex A (informative).

Table 1 — Wet properties of each coat of the coating system

	UNIT ^a	REFERENCE DOCUMENT ^b	COAT				
			PRIMER ^c	STAIN	UNDERCOAT	FILLER	TOP COAT
Name							
Additional component ^d							
Chemical nature of binder ^e							
Chemical nature of solvents ^f							
Non volatile content - delivery - application							
Solvent content: - organic - "non" organic							
Flashpoint:							
Pot life							
Viscosity - delivery - application							
^a When applicable.							
^b The supplier or manufacturer has to indicate according to which standard, legislation or reference document in general, the results are given.							
^c Primer = e.g. putty, barrier coat, hydroground.							
^d Information has to be given for every component of each coat.							
^e For example: nitrocellulose, unsaturated polyester, saturated polyester, alkyd resin, acrylic resin.							
^f For example: water, volatile organic compounds, reactive organic solvent, solvent free.							

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4.2 Details of build

Fill in the blanks with the adequate information, when appropriate. See examples in Annex A (informative).

Table 2 — Details of build

	UNIT ^a	REFERENCE DOCUMENT ^b	COAT				
			PRIMER ^c	STAIN	UNDERCOAT	FILLER	TOP COAT
Layer thickness (dry)							
Application rate (wet): ^d							
^a When applicable. ^b The supplier or manufacturer has to indicate according to which standard, legislation or reference document in general, the results are given. ^c Primer = e.g. putty, barrier coat, hydrogrund. ^d Theoretical application rate. Theoretical consumption without overspray but with evaporating solvent, determination by weight.							

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4.3 Application system

Fill in the blanks with the adequate information, when appropriate. See examples in Annex A (informative).

Table 3 — Application system

PROCESS ^a		COAT				
		PRIMER	STAIN	UNDERCOAT	FILLER	TOP COAT
Flattening						
Roller coating						
Curtain coating						
Spray coating	air spray					
	airless					
	airmix					
	hot spraying					
	electrostatic					
	others					
Others	dipping					
	vacuum					
	powder coating					
	others					

^a If necessary, special conditions can be written in the adequate case.

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