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I.S. EN 12215:2004+A1:2009

# Coating plants - Spray booths for application of organic liquid coating materials - Safety requirements

## I.S. EN 12215:2004+A1:2009

*Incorporating amendments/corrigenda issued since publication:*

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<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W <b>NSAI.ie</b>	<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie	<b>Price Code:</b> <b>O</b>
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English Version

## Coating plants - Spray booths for application of organic liquid coating materials - Safety requirements

Installations d'application - Cabines d'application par pulvérisation de produits de revêtement organiques liquides  
- Prescriptions de sécurité

Beschichtungsanlagen - Spritzkabinen für flüssige organische Beschichtungsstoffe - Sicherheitsanforderungen

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**Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 12215:2004+A1:2009) has been prepared by Technical Committee CEN/TC 271 "Surface treatment equipment — Safety", 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of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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

This European Standard was approved by CEN on 10 September 2004 and includes Corrigendum 1 issued by CEN on 14 June 2006 and Amendment 1 approved by CEN on 16 July 2009.

This document supersedes EN 12215:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags **AC** **AC**<sup>1</sup>.

This document is one of a set of standards devoted to the health and safety requirements of coating plants for the application and drying of organic liquid coating material and varnishes.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU-directives.

NOTE Although a spray booth, as an integral whole, formally does not fall under the scope of the ATEX Directive 94/9/EC, the standard is based upon a fundamental risk analysis according to this directive.

**A1** For relationship with EU Directives, see informative Annexes ZA and ZB, which are integral parts of this document. **A1**

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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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<sup>1</sup> Applicable to the French version.

## **Introduction**

This standard is a type C standard as stated in EN ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

The specific requirements which manufacturers are included in the information for use are given in clause 7.

## 1 Scope

This document is applicable to spray booths as well as multizone spray booths for the application of organic liquid coating materials (paints, varnishes...), and deals with all significant hazards relevant to spray booths or multizone spray booths, when they are used as intended and under the conditions foreseen by the manufacturer (see clause 4).

A spray booth is an assembly of the following linked components: forced ventilation by one or more fans; dry air filtering and/or wet air washing systems, measuring and control devices, ventilation air heating system, automatic fire extinguishing equipment, warning devices, electrical apparatus, joined together within or at a partially or totally enclosed structure (limited by walls, called space) for the controlled processing of spray application of organic liquid coating material.

NOTE 1 Spray booths are classified in annex G.

This standard describes methods of verification of safety measures, information labels to be affixed to the spray booth and minimum usage requirements contained within the operators handbook.

This standard does not cover:

- spraying areas (spaces for application of organic liquid coating materials which are limited only by one side wall used for extraction of exhaust ventilation).
- combined spray booths according to definition given in 3.2;

NOTE 2 See prEN 13355.

- the limiting walls of spray booths if they are constituent parts of a building are not to be considered part of the machinery assembly;
- the workroom or building used for the spraying of large size items (example: air-liner);
- spraying equipment used in spray booths which is covered by EN 1953, EN 50050, and EN 50176.
- Spray booths which are part of complex installations.

NOTE 3 complex installations may include additional hazards.

This standard is not applicable to spray boots which are manufactured before the date of publication of this standard by CEN.



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