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**Paints and varnishes — Corrosion  
protection of steel structures by  
protective paint systems —**

**Part 3:  
Design considerations**

*Peintures et vernis — Anticorrosion des structures en acier par  
systèmes de peinture —*

*Partie 3: Conception et dispositions constructives*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*.

This second edition cancels and replaces the first edition (ISO 12944-3:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the terms and definitions which were not used in the main part of the standard have been deleted;
- the normative references have been updated;
- [5.1](#) "General" has been added;
- the requirement for gap sealing material has been added in [5.3](#);
- the requirements for surface preparation in case of high and very high durabilities for C4 and higher, as well as Im1 to Im4, have been added;
- the title of [Table A.1](#) has been corrected;
- a key has been added to [Figure B.1](#);
- [Figure D.1](#) c) has been deleted;
- the requirements for the radius in [Figures D.5](#) and [D.7](#) have been added;
- a bibliography has been added;
- the text has been editorially revised.

A list of all parts in the ISO 12944 series can be found on the ISO website.