

DIN EN ISO 12944-3



ICS 87.020

Supersedes
DIN EN ISO 12944-3:1998-07

**Paints and varnishes –
Corrosion protection of steel structures by protective paint systems –
Part 3: Design considerations (ISO 12944-3:2017);
English version EN ISO 12944-3:2017,
English translation of DIN EN ISO 12944-3:2018-04**

Beschichtungsstoffe –
Korrosionsschutz von Stahlbauten durch Beschichtungssysteme –
Teil 3: Grundregeln zur Gestaltung (ISO 12944-3:2017);
Englische Fassung EN ISO 12944-3:2017,
Englische Übersetzung von DIN EN ISO 12944-3:2018-04

Peintures et vernis –
Anticorrosion des structures en acier par systèmes de peinture –
Partie 3: Conception et dispositions constructives (ISO 12944-3:2017);
Version anglaise EN ISO 12944-3:2017,
Traduction anglaise de DIN EN ISO 12944-3:2018-04

Document comprises 23 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN ISO 12944-3:2017) has been prepared by Technical Committee ISO/TC 35 “Paints and varnishes” in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” (Secretariat: DIN, Germany).

The responsible German body involved in its preparation was *DIN-Normenausschuss Beschichtungsstoffe und Beschichtungen* (DIN Standards Committee Coatings and Coating Materials), Subcommittee NA 002-00-10-01 UA “General” of Working Committee NA 002-00-10 AA “Corrosion protection of steel structures”.

The DIN documents corresponding to the international documents referred to in this document are as follows:

ISO 1461	DIN EN ISO 1461
ISO 8501-1	DIN EN ISO 8501-1
ISO 8501-3	DIN EN ISO 8501-3
ISO 9223	DIN EN ISO 9223
ISO 12944-1	DIN EN ISO 12944-1
ISO 12944-2	DIN EN ISO 12944-2
ISO 12944-4	DIN EN ISO 12944-4
ISO 12944-5	DIN EN ISO 12944-5
ISO 12944-6	DIN EN ISO 12944-6
ISO 12944-7	DIN EN ISO 12944-7
ISO 12944-8	DIN EN ISO 12944-8
ISO 12944-9	DIN EN ISO 12944-9
ISO 14713-1	DIN EN ISO 14713-1
ISO 14713-2	DIN EN ISO 14713-2

Amendments

This standard differs from DIN EN ISO 12944-3:1998-07 as follows:

- a) terms that are not used in this standard have been deleted;
- b) normative references have been updated;
- c) subclause 5.1 “General” has been added;
- d) in subclause 5.3, requirements for gap sealing material have been added;
- e) in subclause 5.5, requirements for surface preparation in case of high and very high durabilities for C4 and higher and Im1 to Im4 have been added;
- f) the title of Table A.1 has been corrected;

- g) a key to Figure B.1 has been added;
- h) Figure D.1 c) has been deleted;
- i) the requirement for the radius in Figures D.5 and D.7 has been added;
- j) a Bibliography has been included;
- k) the text of the standard has been editorially revised.

Previous editions

DIN 55928: 1956-11, 1959-06x

DIN 55928-2: 1979-10, 1991-05

DIN EN ISO 12944-3: 1998-07

National Annex NA (informative)

Bibliography

DIN EN ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles — Specifications and test methods*

DIN EN ISO 8501-1, *Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness — Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings*

DIN EN ISO 8501-3, *Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness — Part 3: Preparation grades of welds, edges and other areas with surface imperfections*

DIN EN ISO 9223, *Corrosion of metals and alloys — Corrosivity of atmospheres — Classification, determination and estimation*

DIN EN ISO 12944-1, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 1: General introduction*

DIN EN ISO 12944-2, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 2: Classification of environments*

DIN EN ISO 12944-4, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 4: Types of surface and surface preparation*

DIN EN ISO 12944-5, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems*

DIN EN ISO 12944-6, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 6: Laboratory performance test*

DIN EN ISO 12944-7, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 7: Execution and supervision of paint work*

DIN EN ISO 12944-8, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 8: Development of specifications for new work and maintenance*

DIN EN ISO 12944-9, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 9: Protective paint systems and laboratory performance test methods for offshore and related structures*

DIN EN ISO 14713-1, *Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 1: General principles of design and corrosion resistance*

DIN EN ISO 14713-2, *Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 2: Hot dip galvanizing*