# ISO 12944-5:2019 (E)

## Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems

## Contents


Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Classification of environments

5 New work and refurbishment

5.1 New work and total refurbishment
5.2 Partial refurbishment

6 Types of paint

6.1 General
6.2 Examples of generic type of paints
6.2.1 Alkyd paints (AK)
6.2.2 Acrylic paints (AY)
6.2.3 Ethyl silicate paints (ESI)
6.2.4 Paints for epoxy coatings (EP)
6.2.5 Paints for polyurethane coatings (PUR)
6.2.6 Paints for polyaspartic coatings (PAS)
6.2.7 Paints for polysiloxane coatings (PS)

7 Paint systems

7.1 Priming coats and type of primers
7.1.1 General
7.1.2 Types of primer
7.2 Subsequent coats
7.2.1 General
7.2.2 Intermediate coats
7.2.3 Topcoats
7.3 Dry film thickness
7.4 Durability
7.5 Shop and site application

8 Tables for protective paint systems for C2 to C5, Im1, Im2 and Im3

8.1 Reading the tables
8.2 Parameters influencing durability
8.3 Designation of the paint systems listed
8.4 Guidelines for selecting the appropriate paint system

Annex A (normative) Abbreviated terms and descriptions

Annex B (normative) Minimum requirements for corrosion protection systems

Annex C (informative) Paint systems for carbon steel

Annex D (informative) Paint systems on hot dip galvanized steel

**Annex E (informative) Paint systems on thermal-sprayed metallic coatings**

**Annex F (informative) Pre-fabrication primers**

**Page count: 23**