

DIN EN ISO 12944-5:2020-03 (E)

Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 5: Protective paint systems (ISO 12944-5:2019)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Classification of environments	8
5	New work and refurbishment	8
5.1	New work and total refurbishment	8
5.2	Partial refurbishment	9
6	Types of paint	9
6.1	General	9
6.2	Examples of generic type of paints	9
6.2.1	Alkyd paints (AK)	9
6.2.2	Acrylic paints (AY)	9
6.2.3	Ethyl silicate paints (ESI)	10
6.2.4	Paints for epoxy coatings (EP)	10
6.2.5	Paints for polyurethane coatings (PUR)	10
6.2.6	Paints for polyaspartic coatings (PAS)	11
6.2.7	Paints for polysiloxane coatings (PS)	11
7	Paint systems	11
7.1	Priming coats and type of primers	11
7.1.1	General	11
7.1.2	Types of primer	11
7.2	Subsequent coats	12
7.2.1	General	12
7.2.2	Intermediate coats	12
7.2.3	Topcoats	12
7.3	Dry film thickness	12
7.4	Durability	12
7.5	Shop and site application	13
8	Tables for protective paint systems for C2 to C5, Im1, Im2 and Im3	14
8.1	Reading the tables	14
8.2	Parameters influencing durability	14
8.3	Designation of the paint systems listed	14
8.4	Guidelines for selecting the appropriate paint system	14
Annex A (normative) Abbreviated terms and descriptions		15
Annex B (normative) Minimum requirements for corrosion protection systems		16
Annex C (informative) Paint systems for carbon steel		20
Annex D (informative) Paint systems on hot dip galvanized steel		23
Annex E (informative) Paint systems on thermal-sprayed metallic coatings		25
Annex F (informative) Pre-fabrication primers		26
Bibliography		28