

# ISO 12944-5:2018-02 (E)

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

---

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

<b>Annex D (informative) Paint systems on hot dip galvanized steel .....</b>	<b>17</b>
<b>Annex E (informative) Paint systems on thermal-sprayed metallic coatings .....</b>	<b>19</b>
<b>Annex F (informative) Pre-fabrication primers .....</b>	<b>20</b>
<b>Bibliography .....</b>	<b>22</b>