

DIN EN 1953:2025-04 (E)

Application equipment for coating materials - Safety requirements

Contents		Page
	European foreword	4
	Introduction	5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Safety requirements and/or protective/risk reduction measures	9
4.1	Mechanical	9
4.1.1	Mechanical strength	9
4.1.2	Ejection of pressurized fluids	10
4.1.3	Ejection of fluids or parts	11
4.1.4	Cutting	12
4.2	Electrical	12
4.3	Temperature	12
4.4	Noise	12
4.5	Explosion	13
4.5.1	Electrostatic ignition sources	13
4.5.2	Electrical ignition sources	13
4.5.3	Non-electrical ignition sources	13
4.6	Hazardous materials and substances	13
4.6.1	Contact with coating materials or cleaning liquids	13
4.6.2	Inhalation of aerosols and solvent vapours	14
4.7	Ergonomic design	14
4.8	Malfunction	14
4.8.1	General	14
4.8.2	Trigger function	14
5	Verification of safety requirements and/or protective/risk reduction measures	14
5.1	Mechanical	14
5.1.1	Mechanical strength	14
5.1.2	Ejection of pressurized fluids	15
5.1.3	Ejection of fluids or parts	15
5.1.4	Cutting	15
5.2	Electrical	15
5.3	Temperature	16
5.4	Noise	16
5.5	Explosion	16
5.5.1	Electrostatic ignition sources	16
5.5.2	Electrical ignition sources	17
5.5.3	Non-electrical ignition sources	17
5.6	Hazardous materials and substances	17
5.6.1	Contact with coating materials or cleaning liquids	17
5.6.2	Inhalation of aerosols and solvent vapours	17
5.7	Ergonomic design	17
5.8	Malfunction	17
5.8.1	General	17
5.8.2	Blockage of the trigger	17

6	Information for use	17
6.1	General	17
6.2	Instructions for use	17
6.2.1	General	17
6.2.2	Information on installation	18
6.2.3	Information on operation	19
6.2.4	Information on maintenance and inspection	20
6.3	Marking	20
6.3.1	General	20
6.3.2	Supplementary marking for ATEX equipment	20
6.3.3	Marking of very small equipment	21
6.4	Sales literature	21
Annex A (informative) List of significant hazards		22
Annex B (informative) Significant technical changes between this European Standard and the previous edition		26
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered		27
Annex ZB (informative) Relationship between this European Standard and the essential Health and Safety requirements of Directive 2014/34/EU aimed to be covered		29
Bibliography		31