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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 6514-2023

Replacing GB 6514-2008

**Safety code of practice for coating - Safety and ventilation for
coating process**

涂装作业安全规程 涂漆工艺安全及其通风

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	2
4 Ventilation requirements	3
6 Steel pre-treatment production line safety	5
8 Safety of hand painting and hand scraping putty	8

Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting: This document replaces GB 6514-2008 "Safety Regulations for Painting Operations: Safety of Painting Processes and Ventilation and Purification" and GB 7692-2012 "Safety Regulations for Painting Operations: Safety of Pre-painting Treatment Processes and Ventilation and Purification", consistent with GB 6514-2008 and GB 7692-2012 In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Added the terms and definitions of "individual ventilation" (see 3:7) and "circulating air" (see 3:8);
- b) Deleted the fire hazard classification of painting workplaces, the allowable concentration of toxic substances in the air of painting workplaces, workplaces and indoor External temperature difference limit, winter heating air temperature at the workplace, temperature of the auxiliary room in winter, hygienic characteristic level of the painting workplace Various parameters of hygiene limits for noise levels in workplaces (see Tables 1 to 7 of GB 6514-2008);
- c) The drying and curing content has been deleted (see 5:8 of GB 6514-2008);
- d) Delete the liquid level control wind speed of various pre-treatment tanks, the cross-sectional wind speed determined by the volume of the shot blasting chamber, and the wind speed determined by the nozzle diameter: Various parameters of emission (see Table 1, Table 2, and Table 3 of GB 7692-2012);
- e) Added regulations on the safety of the air-mixed spraying process (see 6:4) and the ventilation of the paint mixing room (see 7:3:1): Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents: This document is proposed and managed by the Ministry of Emergency Management of the People's Republic of China: The previous

versions of this document and the documents it replaces are as follows:

---First published in 1986 as GB 6514-1986;

---In the first revision in:1995, the provisions of GB 6515-1986 "Safety Regulations for Painting Operations and Ventilation and Purification of Painting Processes" were incorporated content;

---Second revision in:2008;

---This is the third revision and incorporates GB 7692-2012 "Safety Regulations for Painting Operations" Pre-painting process safety and its general Contents of "Wind Purification" (the previous versions of GB 7692-2012 are: GB 7692-1987, GB 7692-1999 and Incorporating the contents of GB 7693-1987 "Safety Regulations for Painting Operations, Ventilation and Purification of Pre-painting Processes"): Safety regulations for painting operations Painting process safety and ventilation

1 Scope

GB 6514-2023 is the Chinese national standard on safety code of practice for coating - safety and ventilation for coating process, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 28 December 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 October 2024. Classification: ICS 13.100, CCS C72. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the safety technical requirements for pre-treatment and coating processes and their ventilation during painting operations: This document applies to the design, installation and use of pre-treatment processes and coating processes and their ventilation systems in painting operations: This document does not apply to outdoor coating operations of bridges, buildings, large storage tanks, ships and other large components:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB 2494 Safety requirements for bonded abrasive tools GB 2893 safety color

GB 2894 Safety signs and guidelines for their use GB 4053:

3 Safety requirements for fixed steel ladders and platforms Part 3: Industrial protective railings and steel platforms

GB 6220 Respiratory protection long tube respirator

GB 7691 Safety Regulations for Painting Operations General Principles of Safety Management

GB 8978 Comprehensive Wastewater Discharge Standard

GB 12367 Safety Regulations for Painting Operations Safety of Electrostatic Spray Painting Process

GB 14443 Safety Regulations for Painting Operations Safety Technical Regulations for Coating Drying Rooms

GB 14444 Safety Regulations for Painting Operations Safety Technical Regulations for Spray Rooms

GB 14773 Safety regulations for painting operations Safety technical conditions for electrostatic spray guns and their auxiliary devices

GB 15607 Safety Regulations for Painting Operations Safety of Powder Electrostatic Spraying Process

GB 16297 Comprehensive Emission Standard of Air Pollutants

GB 17750 Safety Regulations for Painting Operations Dip Coating Process Safety GB :20101 Safety Regulations for Painting Operations Safety Technical Regulations for Organic Waste Gas Purification Devices