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

GB/T 14441-2024

Replacing GB/T 14441-2008

Terminology for the safety of coating operations

涂装作业安全术语

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 14441-2008 "Terms of Safety Regulations for Painting Operations". Compared with GB/T 14441-2008, except for the structure In addition to adjustments and editorial changes, the main technical changes are as follows:

- a) The terms "painting works" (see 3.2 of the.2008 edition), "painting workplace" (see 3.4 of the.2008 edition), and "painting "Overall safety of workplaces" (see 3.6 of the.2008 edition), "confined spaces" (see 3.7 of the.2008 edition), "hot work" (see 3.8 of the.2008 edition);
- b) Added the terms "workpiece" (see 3.4), "matrix" (see 3.5), and "substrate" (3.6);
- c) The definition of "painting" (see 3.1, 3.1 of the.2008 edition) has been changed;
- d) The structure of "Coatings and their preparation" has been changed and the levels have been subdivided (see Chapter 4, Chapter 4 of the.2008 edition);

e) Added the terms "coating" (see 4.1.1), "UV coating" (see 4.1.10), "thinner" (see 4.2.1), "paint preparation" (see 4.2.3), "Paint storage room" (see 4.2.4);

f) the term "benzene-free diluent" has been deleted (see

1 Scope

GB/T 14441-2024 is the Chinese national standard on terminology for the safety of coating operations, in the field of environment and health protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 28 November 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2025. Classification: ICS 13.100, CCS C 65. 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 defines common terms for safety in painting operations. This document is applicable to painting operations, as well as related production, management, design, scientific research, teaching, publishing and other fields.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 18719 Thermal spraying terms and classification GBZ

3 Basic terminology

The terms and definitions defined in GB/T 18719 and the following apply to this document.

3.1 Coating The process of making paint firmly adhere to the surface of metal or non-metal objects.

3.2 Coating operation The general term for production activities performed by workers throughout the entire coating process (3.1).

3.3 Safety standards established to eliminate, control or prevent the various dangerous and harmful factors in painting operations (3.2).

3.4 Workpiece Molded components that require coating or protection.

3.5 Basis Substrate The main material of the workpiece (3.4).

Note. If the material is metal, it is called a metal matrix; if the material is non-metallic material, it is called a non-metallic matrix.

3.6 Substrate The base layer or bottom layer formed on the surface of the substrate (3.5) before coating (3.1).

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