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

GB/T 30191-2025

Replacing GB/T 30191-2013

Photocatalytic self-cleaning coatings for exterior walls

外墙光催化自洁涂覆材料

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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/T 30191-2013 "Photocatalytic Self-Cleaning Coating Materials for Exterior Walls". Compared with GB/T 30191-2013, except for the structure... Aside from adjustments and editorial changes, the main technical changes are as follows:

- a) The term "self-cleaning" has been changed to "self-purifying" (see 3.2, 3.3 in the.2013 edition);
- b) The term and definition of "optical resolution index" have been added (see 3.5);
- c) The "markup" has been removed (see 4.2 in the.2013 edition);
- d) A "General Requirements" section has been added (see Chapter 5);
- e) Storage stability has been removed (see 5.1 in the.2013 edition);
- f) Improved low-temperature stability, workability, acid rain resistance, washability, stain resistance, photolysis index, and resistance to artificial weathering. Standards and test methods (see Chapter 6, 7.4, 7.5, 7.10, 7.12, 7.13, 7.15, 7.16);
- g) The coating's resistance to temperature deformation, minimum contact angle

parameters, and test methods have been modified (see 6.1, 7.11, 7.14;
6.9 in the 2013 edition). 6.10);

h) Increased limits and test methods for hazardous substances (see 6.2, 7.17);

1 Scope

GB/T 30191-2025 is the Chinese national standard covering the titanium dioxide coating that breaks down dirt in sunlight and lets rain wash it off - the photocatalytic activity and how it is measured, the hydrophilicity, the durability of the effect, and the adhesion and weathering of the coating itself. It replaces GB/T 30191-2013, under the Ministry of Housing and Urban-Rural Development. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 30191-2013.

This document specifies the classification, general requirements, requirements, inspection rules, marking, packaging, transportation, and storage of photocatalytic self-cleaning coating materials for exterior walls. The document describes the corresponding experimental methods. This document applies to the production and inspection of coating materials that exhibit hydrophilic and self-cleaning properties under photocatalytic action when applied to the surface of building exterior wall paints. And sales.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1728-2020 Determination of drying time of paint film and putty film

GB/T 1733-1993 Test method for water resistance of paint film

GB/T 1766 Rating Method for Aging of Paint and Varnish Coatings

GB/T 1865-2009 Paints and varnishes - Artificial weathering and artificial radiation exposure - Filtered xenon arc radiation

GB/T 3186 Sampling of raw materials for paints, varnishes and paints and varnishes

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 9265 Determination of Alkali Resistance of Architectural Coatings

GB/T 9268-2008 Determination of freeze-thaw resistance of latex paints

GB/T 9271 Standard test plates for paints and varnishes

GB/T 9274-1988 Determination of resistance to liquid media of paints and varnishes

GB/T 9750 General Rules for Packaging, Marking, Transportation and Storage of Coatings and Pigments

GB/T 9755-2024 Synthetic Resin Emulsion Wall Coatings

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Photocatalysis The catalytic effect produced under the excitation of a certain light source.