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

GB/T 23445-2025

Replacing GB/T 23445-2009

**Polymer-modified cement compounds for waterproofing
membrane**

聚合物水泥防水涂料

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Standardization Administration of the PRC**

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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 23445-2009 "Polymer Cement Waterproof Coatings". Compared with GB/T 23445-2009, the main differences are in the structural adjustments. Aside from editorial changes, the main technical changes are as follows:

- a) Terms and definitions have been changed (see Chapter 3, Chapter 3 of the.2009 edition);
- b) The general requirements have been removed (see Chapter 5 of the.2009 edition);
- c) Tensile strength (retention rate after water immersion treatment, retention rate after UV treatment) and elongation at break (retention rate after water immersion treatment, UV treatment) were removed. The physical properties and bonding strength (water immersion treatment) and corresponding test methods are specified in sections 6.2, 7.4.6, 7.4.7, and 7.6.3.4 of the.2009 edition.
- d) The sample preparation method has been changed (see 6.3.2, 7.4.2 of the.2009 version);
- e) The low-temperature flexibility test method has been changed, and low-temperature flexibility technical requirements for Type II and Type III products have been added (see 5.2, 6.7,.2009 edition). (6.2, 7.5)
- f) The technical requirements for impermeability of Type III products have been deleted (see 6.2 in the.2009 edition);
- g) Added technical requirements and corresponding test methods for the impermeability of

Type III products (water-facing side of mortar) (see 5.2, 6.9);

h) The duration of the thermal aging test has been changed, and technical requirements for low-temperature flexibility after thermal aging and corresponding test methods have been added (see 5.2). 6.11 (7.4.4 of the 2009 edition);

1 Scope

GB/T 23445-2025 is the Chinese national standard covering the two-part polymer cement coating brushed onto a bathroom floor or a basement wall - the mix ratio, the tensile strength and elongation, the adhesion to damp concrete and the impermeability, and the crack bridging that decides whether it leaks. Issued on 2 December 2025, it has been in force since 1 July 2026, replacing GB/T 23445-2009.

This document specifies the classification and marking, technical requirements, test methods, and inspection procedures for polymer cement waterproof coatings (hereinafter referred to as "JS waterproof coatings"). Rules and markings, packaging, transportation and storage. This document applies to polymer cement waterproof coatings used in engineering waterproofing.

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 328.10-2007 Test methods for building waterproof membranes - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Using polymer emulsions such as acrylate, vinyl acetate-ethylene, and butadiene-styrene as the main raw materials and cement, fillers and other additives are added. It is a liquid-powder type flexible two-component water-based waterproof coating formulated with additives and cured into a film by water evaporation and reaction.

3.2 autistic self-closing The ability of coating cracks to self-heal and seal under physical and chemical reactions in the presence of water, so that the coating cracks do not... The duration of the re-seepage is indicated.

4 Classification and Labeling

4.1 Classification The products are classified into Type I, Type II and Type III according to their physical and mechanical properties.

10 Impermeability of bituminous and polymer waterproof membranes

GB/T 328.14 Test Methods for Building Waterproofing Membranes Part

14 Low-Temperature Flexibility of Bituminous Waterproofing Membranes

GB/T 528 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber

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

GB 8076 Concrete Admixtures

GB 8624-2012 Classification of fire performance of building materials and products

GB/T 8626 Test Methods for Flammability of Building Materials

GB/T 16777-2008 Test Methods for Waterproof Coatings for Buildings

GB/T 18244-2022 Aging Test Method for Building Waterproofing Materials

GB 45671 Safety Technical Specification for Building Waterproof Coatings JGJ/T

70 Standard for Test Methods of Basic Performance of Building Mortar