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

GB/T 13477.22-2022

**Test method for building sealants - Part 22: Determination of
curing behaviour**

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Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

4 principles

5 Test materials and apparatus

5.1 One-component sealant

5.2 Multi-component sealants

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" to be drafted.

This document is part 22 of GB/T 13477 "Test methods for building sealing materials". GB/T 13477 has issued the following

part.

- Part 1. Requirements for test substrates;
- Part 2. Determination of density;
- Part 3. Method for determining the extrudability of sealing materials using standard instruments;
- Part 4. Determination of extrudability of original packaging single-component sealing materials;
- Part 5. Determination of surface dry time;
- Part 6. Determination of fluidity;
- Part 7. Determination of low temperature flexibility;
- Part 8. Determination of tensile adhesion;
- Part 9. Determination of tensile adhesion after immersion in water;
- Part 10. Determination of elongation adhesion;

- Part 11.Determination of tensile adhesion after immersion in water;
- Part 12.Determination of cohesion after tension-compression cycle at the same temperature;
- Part 13.Determination of adhesion after cold drawing-hot pressing;
- Part 14.Determination of cohesion after immersion in water and tension-compression cycles;
- Part 15.Determination of adhesion after exposure to heat, artificial light through glass and water;
- Part 16.Determination of compression characteristics;
- Part 17.Determination of elastic recovery rate;
- Part 18.Determination of peel adhesion;
- Part 19.Determination of mass and volume changes;
- Part 20.Determination of Pollution;
- Part 21.Determination of color change after artificial accelerated weathering;
- Part 22.Determination of curing characteristics;
- Part 23.Determination of durability after tensile-compression cycles under artificial accelerated weathering.

This document is modified to adopt ISO 19861.2015 "Determination of curing properties of sealants for building and civil engineering".

Compared with ISO 19861.2015, this document has more structural adjustments.

Comparison overview of structure number changes between two files

See Appendix A for the table.

Compared with ISO 19861.2015, this document has more technical differences, and vertical

A single line (?) is indicated. See Appendix B for a list of these technical differences and their causes.

The following editorial changes have been made to this document.

- In order to coordinate with existing standards, change the name of the standard to "Test methods for building sealing materials Part 22.Determination of curing characteristics";
- Change "OO" in 5.2.2 of ISO 19861.2015 to "AO";
- Change "substrate" in 6.2.2b) of ISO 19861.2015 to "test cup";

---Include the suggested instructions in 9.2 of ISO 19861.2015 on obtaining more data points instead of linear interpolation into 9.2 of this document

"note".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Building sealing materials are a type of functional building materials that can withstand joint displacement to achieve airtight and watertight purposes and are embedded in building joints.

It is of great significance to improve the sealing, energy saving, waterproof, sound insulation, dustproof and other functions of buildings. In response to the country's priority development of new defense

The planning outline of water sealing materials, standardize product quality, and guide the healthy and orderly development of the product market. From the 1980s to the present, my country has gradually

A relatively complete standard system for building sealing materials has been established. GB/T 13477 is an important component of the standard system for building sealing materials.

Based on the international standard system documents corresponding to ISO /TC59/SC8, 23 parts have been released and implemented.

GB/T 13477 is a basic and general test method standard to guide the performance testing of building sealant products in my country.

Provide technical support for product standard setters, producers, and developers. GB/T 13477 is divided into 5 categories, classification and some structures that have been published and implemented

into the following.

---Test conditions (Part 1), specifying conditions such as test substrates;

---Construction performance category (Part 3~Part 6, Part 22), specifying the extrudability, pot life, surface dry time, flow of the product

Determination methods of properties, curing properties, etc.;

---Physical/mechanical properties (Part 2, Part 7, Part 16, Part 17, Part 19), specifying the density of the product,

Determination methods for low temperature flexibility, compression properties, elastic

recovery rate, mass and volume changes, etc.;

---Adhesive properties with the base material (Part 8~Part 14, Part 18), specifying the tensile adhesion and constant elongation adhesion of the product

Determining methods of adhesion, adhesion after water immersion, adhesion after tension-compression, peel adhesion, adhesion after high/low temperature treatment, etc.;

---Durability/Aesthetics (Part 15, Part 20, Part 21, Part 23), specifying the artificial weathering resistance of the product

Determination methods such as property, pollution property, dust accumulating property, appearance change, etc.

This document is the 22nd part of GB/T 13477, which belongs to the category of construction performance, and specifies the determination method for the curing properties of sealants.

It provides a reliable basis for selecting and evaluating the curing characteristics of sealants, which is conducive to eliminating technical barriers to trade and better promoting trade, communication and technology.

cooperate.

Test methods for building sealing materials

Part 22. Determination of curing characteristics

1 Scope

This document specifies the principle, test materials and equipment, general rules, and test piece preparation of the test method for the curing properties of sealants used in construction and civil engineering.

equipment, test procedure, presentation of results and test report.

This document applies to the determination of the curing characteristics of sealants used in construction and civil engineering.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.