International Standard

ISO 13640

Building and civil engineering sealants — Specifications for test substrates

Mastics pour le bâtiment et le génie civil — Prescriptions relatives aux supports d'essais

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Foreword

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This document was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, Subcommittee SC 8, *Sealants*.

This third edition cancels and replaces the second edition (ISO 13640:2018), which has been technically revised.

The main changes are as follows:

— the title has been revised from *Buildings and civil engineering works — Sealants —Specifications for test substrates;*

— normative references have been updated;

— in Clause 4, the dimensions of the interface substrate or sealant have been added as a reminder;

— in 4.1.1, 4.2.1 and 4.3.1, regarding the substrate dimensions: “or other dimensions as agreed between the concerned parties” has been added;

— 4.2.2 has been added to provide specifications for glass substrates, in the same way as for other substrates;

— 4.3.2 has been renamed to “Substrate specifications” for anodized aluminium substrates.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Building and civil engineering sealants — Specifications for test substrates

1 Scope

This document specifies the procedures for producing substrates of mortar, glass and anodized aluminium used for testing sealants.

This document defines the composition and the method of preparation of the test substrates to ensure the reproducibility of the tests conducted on sealants.

The substrates defined in this document are indicators of the sealant's performance and not substrates which reproduce the characteristics of the construction materials.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 209, *Wrought aluminium and aluminium alloys — Chemical composition*

ISO 679:2009, *Cement — Test methods — Determination of strength*

ISO 2143, *Anodizing of aluminium and its alloys — Estimation of loss of absorptive power of anodic oxidation coatings after sealing — Dye-spot test with prior acid treatment*

ISO 6707-1, *Buildings and civil engineering works — Vocabulary — Part 1: General terms*

ISO 6927, *Building and civil engineering sealants — Vocabulary*

ISO 7599:2018, *Anodizing of aluminium and its alloys — Method for specifying decorative and protective anodic oxidation coatings on aluminium*

ISO 11431, *Building and civil engineering sealants — Determination of adhesion and cohesion properties of sealants after exposure to heat, water and artificial light through glass*

ISO 16293-1, *Glass in building — Basic soda lime silicate glass products — Part 1: Definitions and general physical and mechanical properties*

ISO 16293-2, *Glass in building — Basic soda lime silicate glass products — Part 2: Float glass*

EN 196-1, *Methods of testing cement — Part 1: Determination of strength*

EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 515, *Aluminium and Aluminium Alloys — Wrought Products — Temper Designations*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6927 and ISO 6707-1 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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