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Building and civil engineering sealants — Determination of cured thickness of one-component sealant —

Part 1:

Taper-shaped groove test method

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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

A list of all parts in the ISO 24070 series can be found on the ISO website.

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Building and civil engineering sealants — Determination of cured thickness of one-component sealant —

Part 1:
Taper-shaped groove test method

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1 Scope

This document specifies a method for the determination of the cured thickness depth of cure of one-component sealants using a taper-wedge-shaped groove test method.

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 6927, *Buildings and civil engineering sealants — Vocabulary*

3 Terms and definitions

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

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

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

— IEC Electropedia: available at http://www.electropedia.org/

4 Principle

The cured thickness is determined by:

— filling the one-component sealant into a taper-shaped groove that is provided in an anti-adherent material or in a material that is made anti-adherent with the help of a release spray;

— tooling the sealant flat with the surface of the taper-shaped groove;

— allowing the sealant to cure under specified conditions for a specified period of time; and

— removing the cured sealant from the groove by pulling the sealant strand perpendicular to the groove at the flat end of the tapered groove until adhesion of the still uncured sealant section to the bottom and/or walls of the tapered groove is observed.

At the location where the first indication of uncured sealant occurs in the taper-shaped groove, the maximum depth of the cured section of the sealant (cured thickness) and the distance from the upper end of the taper- shaped groove are determined after specified period(s) of time.

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