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NSAI Standards

Irish Standard
I.S. EN 14187-1:2017

Cold applied joint sealants - Test methods - Part 1: Determination of rate of cure

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This document is based on:	*Published:*
EN 14187-1:2017	2017-06-14

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2017-07-02	93.080.20
	NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 14187-1:2017 is the adopted Irish version of the European Document EN 14187-1:2017, Cold applied joint sealants - Test methods - Part 1: Determination of rate of cure

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14187-1

June 2017

ICS 93.080.20

Supersedes EN 14187-1:2003

English Version

Cold applied joint sealants - Test methods - Part 1: Determination of rate of cure

Mastics pour joints appliqués à froid - Méthodes d'essai - Partie 1: Détermination du taux de polymérisation

Kalt verarbeitbare Fugenmassen - Prüfverfahren - Teil 1: Bestimmung des Aushärtungsgrades

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European foreword

This document (EN 14187-1:2017) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14187-1:2003.

Apart from editorial changes no major changes have been made in this revision.

This European Standard is one of a series of standards as listed below:

EN 14187-1, *Cold applied joint sealants — Test methods — Part 1: Determination of rate of cure.*

EN 14187-2, *Cold applied joint sealants — Test methods — Part 2: Determination of tack free time.*

EN 14187-3, *Cold applied joint sealants — Test methods — Part 3: Determination of self-levelling properties*.

EN 14187-4, *Cold applied joint sealants — Test methods — Part 4: Determination of the change in mass and volume after immersion in test fuels and liquid chemicals.*

EN 14187-5, *Cold applied joint sealants — Test methods — Part 5: Determination of the resistance to hydrolysis*.

EN 14187-6, *Cold applied joint sealants — Test methods — Part 6: Determination of the adhesion/cohesion properties after immersion in test fuels and liquid chemicals.*

EN 14187-7, *Cold applied joint sealants — Test methods — Part 7: Determination of the resistance to flame*.

EN 14187-8, *Cold applied joint sealants — Test methods — Part 8: Determination of the resistance to artificial weathering by UV-irradiation*.

EN 14187-9, *Cold applied joint sealants — Test methods — Part 9: Function testing of joint sealants*.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This European Standard describes the determination of the rate of cure of cold applied joint sealants indicated by the build-up of the tensile modulus during the cure.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13880-12, *Hot applied joint sealants — Part 12: Test method for the manufacture of concrete test blocks for bond testing (recipe methods)*

EN ISO 6927, *Buildings and civil engineering works — Sealants — Vocabulary (ISO 6927)*

EN ISO 8340, *Building construction — Sealants — Determination of tensile properties at maintained extension (ISO 8340)*

3 Terms and definitions

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

4 Principle

The rate of cure of a cold applied joint sealant is determined as the relation between the tensile modulus at any time during cure and after complete cure of the test specimen.

5 Apparatus and materials

5.1 Concrete supports in accordance with EN 13880-12 for the preparation of the test specimens, of dimensions as shown in Figure 1. Two concrete supports shall be used for each test specimen.

5.2 Spacers, (Figure 1) of dimensions 12 mm × 12 mm × 12,5 mm (Figure 1) for the preparation of test specimens. Two spacers shall be used for each test specimen.

5.3 Anti-adherent substrate for the preparation of the test specimens, on which the sealant does not adhere.

5.4 Tensile test machine capable of extending the test specimens at a rate of (5,5 ± 0,5) mm/min.

6 Preparation of test specimens

6.1 Assemble two concrete supports (5.1) and two spacers (see 5.2) in accordance with Figure 1 and set up on the anti-adherent substrate (5.3). For the test six specimens are needed.

6.2 Follow the instructions of the sealant manufacturer whether a primer is to be used.

6.3 Condition the concrete supports, the spacers and the sealant for 4 h at (23 ± 2) °C. Fill the volume between the concrete supports and spacers with sealant.

6.4 For multi-component cold applied joint sealants, thoroughly mix appropriate quantities of base component with curing agent following the manufacturer's instruction. One-component joint sealants can be applied directly from the pack.

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