



**NSAI**  
Standards

Irish Standard  
I.S. EN 14187-5:2019

# Cold applied joint sealants - Test methods - Part 5: Determination of the resistance to hydrolysis

**I.S. EN 14187-5:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 14187-5:2019 is the adopted Irish version of the European Document EN 14187-5:2019, Cold applied joint sealants - Test methods - Part 5: Determination of the resistance to hydrolysis

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EUROPEAN STANDARD

EN 14187-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

## Cold applied joint sealants - Test methods - Part 5: Determination of the resistance to hydrolysis

Mastics pour joints appliqués à froid - Méthodes d'essai  
- Partie 5 : Détermination de la résistance à l'hydrolyse

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

This European Standard was approved by CEN on 25 July 2018.

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<b>Contents</b>		Page
<b>European foreword</b> .....		<b>3</b>
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>4</b>
<b>4</b>	<b>Principle</b> .....	<b>4</b>
<b>5</b>	<b>Apparatus and materials</b> .....	<b>4</b>
<b>6</b>	<b>Preparation of test specimens</b> .....	<b>4</b>
<b>7</b>	<b>Conditioning</b> .....	<b>5</b>
<b>8</b>	<b>Procedure</b> .....	<b>5</b>
<b>8.1</b>	<b>Test temperature</b> .....	<b>5</b>
<b>8.2</b>	<b>Test period</b> .....	<b>5</b>
<b>8.3</b>	<b>Test procedure</b> .....	<b>5</b>
<b>8.4</b>	<b>Calculation and expression of results</b> .....	<b>5</b>
<b>9</b>	<b>Test report</b> .....	<b>6</b>

## European foreword

This document (EN 14187-5:2019) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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

This document supersedes EN 14187-5:2003.

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

This document 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 method — 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 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 organisations 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.

## EN 14187-5:2019 (E)

### 1 Scope

This document describes a test method for determining the resistance to hydrolysis of cold applied joint sealants after treatment at elevated temperature and high humidity.

### 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.

EN ISO 868, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness) (ISO 868)*

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

### 3 Terms and definitions

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

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 4 Principle

Test specimen of the cold applied joint sealant is prepared in a round mould and treated for 14 days in an autoclave at elevated temperature and high humidity. The hardness of the test specimen is recorded before and after treatment at high humidity and temperature.

### 5 Apparatus and materials

**5.1 Round moulds of polyethylene**, with a diameter of 50 mm to 70 mm and a depth of 10 mm.

**5.2 Autoclave from stainless steel**, for treatment of the specimens of the cold applied joint sealant at elevated temperature and high humidity.

**5.3 Convection type oven**, controllable between 60°C to 100°C and accurate to  $\pm 2^\circ\text{C}$ .

**5.4 Apparatus for the measurement of Shore A hardness** conforming to EN ISO 868.

### 6 Preparation of test specimens

Clean the round moulds (5.1) and fill with sealant previously conditioned for 24 h at  $(23 \pm 2)^\circ\text{C}$ . The test is carried out with each three test specimens.

The following precautions shall be taken:

- avoid the formation of air bubbles;
- trim the sealant surface so that it is flush with the border of the round mould.



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