

Cold applied joint sealants - Test methods - Part 9:
Function testing of joint sealants

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NATIONAL FOREWORD

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ICS 93.080.20

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EUROPEAN STANDARD

EN 14187-9

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 93.080.20

Supersedes EN 14187-9:2006

English Version

Cold applied joint sealants - Test methods - Part 9: Function testing of joint sealants

Produits de scellement de joints appliqués à froid -
Méthodes d'essais - Partie 9 : Test fonctionnel sur
scellement de joints

Kalt verarbeitbare Fugenmassen - Prüfverfahren - Teil
9: Funktionsprüfung von Fugenmassen

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

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European foreword

This document (EN 14187-9:2019) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.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 14187-9:2006.

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 document: 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.

1 Scope

This document specifies a function test for cold applied joint sealants intended for use in joints in roads and airfield pavements in cold climate areas where the total joint movement can be greater than 35 % and the temperature can go below -25°C .

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

EN 14187-2, *Cold applied joint sealants — Part 2: Test method for the determination of tack free time*

EN ISO 6927:2012, *Buildings and civil engineering works — Sealants — Vocabulary (ISO 6927:2012)*

EN ISO 7390, *Building construction - Jointing products — Determination of resistance to flow of sealants (ISO 7390)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 6927:2012 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

This method describes an accelerated test for the assessment of damage of the cold applied sealants arising from the influence of fluctuating temperatures, water-spraying and simultaneous dynamic load.

5 Apparatus and materials

5.1 Concrete test blocks

Concrete supports in accordance with EN 13880-12, for the preparation of the test specimens, of dimensions as shown in Figure 1. Two supports are required for each test specimen.