

Cold applied joint sealants - Test methods - Part 2:
Determination of tack free time

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NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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EUROPEAN STANDARD

EN 14187-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 14187-2:2003

English Version

Cold applied joint sealants - Test methods - Part 2: Determination of tack free time

Mastics pour joints appliqués à froid - Méthode d'essai
- Partie 2 : Détermination du temps durcissement

Kalt verarbeitbare Fugenmassen - Prüfverfahren - Teil
2: Bestimmung der klebfreien Zeit

This European Standard was approved by CEN on 6 February 2017.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 14187-2:2017) 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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 14187-2:2003.

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 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.

1 Scope

This European Standard describes a test method for determining the tack free time of the cold applied joint sealant for use in joints in roads, air fields and other trafficked areas.

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 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.

4 Principle

The tack free time of a cold applied joint sealant is determined as the time when no sealant is adhering on a peeled off polyethylene film.

5 Apparatus

5.1 Flat bladed mixing spatula.

5.2 Metal or polyethylene frame, measuring internally (125 ± 5) mm long, (38 ± 2) mm wide and $(6,0 \pm 0,5)$ mm deep.

5.3 Metal base plate, measuring (150 ± 5) mm long, (75 ± 5) mm wide and $(2,0 \pm 0,5)$ mm thick.

5.4 Polyethylene film, measuring (150 ± 5) mm long, (20 ± 2) mm wide and (100 ± 10) μm thick.

5.5 A metal plate, measuring (40 ± 1) mm long, (30 ± 1) mm wide and weighing $(30,0 \pm 0,5)$ g.

5.6 Stop watch with a scale-reading precision of at least 1 s.

6 Conditioning

Store supplies of the sealant samples in the closed containers for 16 h to 24 h at (23 ± 2) °C.

7 Procedure

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

7.2 Pour or fill in the cold applied joint sealant into the metal or polyethylene frame (5.2) mounted on its metal base plate (5.3) and strike off level with the flat bladed mixing spatula.

7.3 Transfer the test specimen into standard conditions at (23 ± 2) °C and (50 ± 5) % r. h. and leave it for the tested period of time.