

Cold applied joint sealants - Part 6: Test method for the determination of the adhesion/cohesion properties after immersion in chemical liquids

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14187-6:2003 sisaldab Euroopa standardi EN 14187-6:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.08.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14187-6:2003 consists of the English text of the European standard EN 14187-6:2003.</p> <p>This document is endorsed on 14.08.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard applies to the determination of the adhesion/cohesion properties after immersion in test fuel</p>	<p>Scope: This European Standard applies to the determination of the adhesion/cohesion properties after immersion in test fuel</p>
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ICS 93.080.20

Võtmesõnad: con, elongation, health protection, holding, immersion, immersion tests, joint filling, joint sealants, joint sealings, materials, occupational safety, road construction, storage time, storing temperature, test specimens, testing, testing conditions, testing devices

ICS 93.080.20

English version

Cold applied joint sealants - Part 6: Test method for the determination of the adhesion/cohesion properties after immersion in chemical liquids

Mastics pour joints appliqués à froid - Partie 6: Méthodes d'essai pour la détermination des propriétés d'adhésivité/cohésion après immersion dans des liquides chimiques

Kalt verarbeitbare Fugenmassen - Teil 6: Prüfverfahren zur Bestimmung der Haft- und Dehnungseigenschaften nach Lagerung in flüssigen Chemikalien

This European Standard was approved by CEN on 25 March 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 14187-6:2003) has been prepared 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 2003, and conflicting national standards shall be withdrawn at the latest by March 2005.

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

EN 14187-1, *Cold applied joint sealants — Part 1: Test method for the determination of the rate of cure.*

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

EN 14187-3, *Cold applied joint sealants — Part 3: Test method for the determination of self-levelling properties.*

EN 14187-4, *Cold applied joint sealants — Part 4: Test method for the determination of the change in mass and volume after immersion in test fuel.*

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

EN 14187-6, *Cold applied joint sealants — Part 6: Test method for the determination of the adhesion/cohesion properties after immersion in chemical liquids.*

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

EN 14187-8, *Cold applied joint sealants — Part 8: Test method for the determination of the artificial weathering by UV-irradiation.*

prEN 14187-9, *Cold applied joint sealants — Part 9: Function test.*¹⁾

No existing European Standard is superseded.

WARNING — Attention is drawn to the health and safety at work and the need to ensure that this test is carried out under suitable environmental conditions to provide adequate protection to persons against the risk of contact or inhalation of toxic liquid chemicals.

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a test method to determine the adhesion/cohesion properties after immersion in chemical liquids.

1) In preparation.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature.*

prEN 13880-12, *Hot applied joint sealants – Test Methods - Part 12: Manufacture of concrete test blocks for bond testing (recipe methods).*

EN 26927:1990, *Building construction - Jointing products - Sealants - Vocabulary (ISO 6927:1981).*

EN 28340:1990, *Building construction - Jointing products - Sealants - Determination of tensile properties at maintained extension (ISO 8340:1984).*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 26927:1990 apply.

4 Principle

The test specimen of the cold applied joint sealant is prepared in which the sealant adheres to two parallel contact surfaces. The test specimen is immersed in specified test liquids and subsequently extended to a defined width. This extension is maintained under defined conditions. Any breaks in adhesion or cohesion are recorded.

5 Apparatus and materials

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

5.2 Spacers of dimensions (12 × 12 × 12,5) mm (see Figure 1) for the preparation of test specimens.

5.3 Anti-adherent substrate, for the preparation of the test specimens.

5.4 Spacers of appropriate dimensions to hold the test specimens extended on 100 % of the original width.

5.5 Tensile testing machine conforming to EN 10002-1, capable of extending the test specimens at a rate of 5 mm/min to 6 mm/min.

5.6 Container for immersion of the test specimens in liquid chemicals, deep enough to provide a minimum of 15 mm of the liquid chemical covering the surface of the specimens.

5.7 Test liquids with compositions as given in Table 1. Instead of test fuel I and test fuel II also jet fuel, hydraulic oil, engine oil, de-icing fluid, glycol or any other liquid chemical can be used as required from the intended application (see annex A).