

Cold applied joint sealants - Part 4: Test method for the determination of the change in mass and volume after immersion in test fuel

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14187-4:2003 sisaldab Euroopa standardi EN 14187-4:2003 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 14187-4:2003 consists of the English text of the European standard EN 14187-4:2003.</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 describes a test method of the evaluation of the resistance of cold applied joint sealants to the action of liquid chemicals by measuring the change in mass and volume after immersion in liquid chemicals</p>	<p>Scope: This European Standard describes a test method of the evaluation of the resistance of cold applied joint sealants to the action of liquid chemicals by measuring the change in mass and volume after immersion in liquid chemicals</p>
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ICS 93.080.20

Võtmesõnad: c, health protection, holding, immersion, immersion tests, interpretations, joint filling, joint sealants, joint sealings, occupational safety, redrying, road construction, storage time, storing temperature, test pieces, testing, testing conditions, testing devices

ICS 93.080.20

English version

Cold applied joint sealants - Part 4: Test method for the determination of the change in mass and volume after immersion in test fuel

Mastics pour joints appliqués à froid - Partie 4: Méthodes d'essai pour la détermination de la variation de masse et de volume après immersion dans un carburant d'essai

Kalt verarbeitbare Fugenmassen - Teil 4: Prüfverfahren zur Bestimmung der Massen- und Volumenänderung nach Lagerung in Prüfkraftstoff

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

CEN members are bound to comply with the CEN/GENELEC 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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Contents

page

Foreword.....3

1 Scope3

2 Normative references4

3 Terms and definitions.....4

4 Principle.....4

5 Apparatus and materials.....4

6 Preparation of test specimens.....5

7 Conditioning.....5

8 Procedure5

9 Expression of results6

10 Test report7

Annex A (informative) List of liquid chemicals8

Bibliography.....10

Foreword

This document (EN 14187-4:2003) 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 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 describes a test method of the evaluation of the resistance of cold applied joint sealants to the action of liquid chemicals by measuring the change in mass and volume after immersion in liquid chemicals.

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 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

Test specimens cut from $(2 \pm 0,1)$ mm thick sheets of the cured cold applied joint sealant are immersed for a required period of time in the liquid chemical. Changes in mass and volume of the test specimens after immersion are determined.

5 Apparatus and materials

5.1 Stopped glass bottle or tube of such dimension that the suspended test specimens remain completely immersed in the specified volume of the test liquid and are freely exposed on all surfaces without restraint.

5.2 Balance, capable of weighing the suspended test specimens immersed in distilled water and accurate to ≤ 1 mg.

5.3 Mould from aluminium or brass with an internal diameter of (150 ± 10) mm and a depth of $(2,0 \pm 0,1)$ mm.

5.4 A convection type oven, controllable at (50 ± 2) °C.

5.5 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).

Table 1 — Composition of test fuels

Chemical liquid	Test fuel I volume in %	Test fuel II volume in %
Isooctane	30	70
Toluene	50	30
Ethanol	5	—
Diisobutylene	15	—