Hot applied joint sealants - Part 13: Test method for the determination of the discontinuous extension (adherence test)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13880- 13:2003 sisaldab Euroopa standardi EN	This Estonian standard EVS-EN 13880- 13:2003 consists of the English text of the
13880-13:2003 ingliskeelset teksti.	European standard EN 13880-13:2003.
Käesolev dokument on jõustatud 17.09.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 17.09.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

European Standard describes a od for determining the cohesive sibility and the adhesion to concrete applied sealant-systems with or ut priming simulating the moving of ete pavement slabs during cooling
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Võtmesõnad: adhesive strength, bitumens, carriageways, construction, construction materials, elongation, expansion tests, expansions, joint filling, joint sealings, pavements, penetration, road construction, roads, tensile strength, testing, testing conditions

EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

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English version

Hot applied joint sealants - Part 13: Test method for the determination of the discontinuous extension (adherence test)

Produits de scellement de joints appliqués à chaud - Partie 13: Méthode d'essai pour la détermination de la traction discontinue (essai d'adhérence)

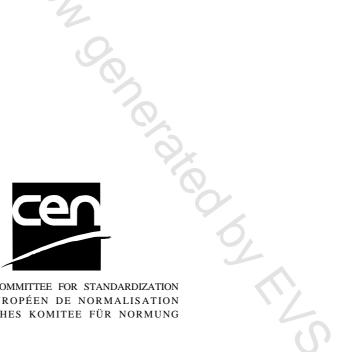
Heiß verarbeitbare Fugenmassen - Teil 13: Prüfverfahren zur Bestimmung des Dehn- und Haftvermögens bei diskontinuierlicher Dehnung

This European Standard was approved by CEN on 2 May 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

page

Forev	word	3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	4
5 5.1 5.2	Apparatus Tensile test rig Cooling chamber,	4
6	Preparation and conditioning of test specimens	5
7 7.1 7.2	Storage of test specimens Air conditioned test specimens Water immersed test specimens	5
8	Procedure	5
9 9.1 9.2	Calculation and expression of results Tensions Failures	6
10	Precision	6
11	Test report	6

Foreword

This document EN 13880-13:2003 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 February 2004, and conflicting national standards shall be withdrawn at the latest by March 2005.

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.

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

EN 13880-1, Hot applied joint sealants – Part 1: Test method for the determination of density at 25 °C.

EN 13880-2, Hot applied joint sealants — Part 2: Test method for the determination of cone penetration at 25 °C.

EN 13880-3, Hot applied joint sealants — Part 3: Test method for the determination of penetration and recovery (resilience).

EN 13880-4, Hot applied joint selants — Part 4: Test method for the determination of heat resistance — Change in penetration value.

EN 13880-5, Hot applied joint sealants — Part 5: Test method for the determination of flow resistance.

prEN 13880-6, Hot applied joint sealants — Part 6: Test method for the preparation of samples for testing.

EN 13880-7, Hot applied joint sealants — Part 7: Function testing of joint sealants.

EN 13880-8, Hot applied joint sealants — Part 8: Test method for the determination of the change in weight of fuel resistance joint sealants after fuel immersion.

EN 13880-9, Hot applied joint sealants — Part 9: Test method for the determination of compatibility with asphalt pavements.

EN 13880-10, Hot applied joint sealants — Part 10: Test method for the determination of adhesion and cohesion following continuous extension and compression.

EN 13880-11, Hot applied joint sealants — Part 11: Test method for the preparation of asphalt test blocks used in the function test and for the determination of compatibility with asphalt pavements.

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

EN 13880-13, Hot applied joint sealants — Part 13: Test method for the determination of the discontinuous extension (adherence test).

1 Scope

This European Standard describes a method for determining the cohesive extensibility and the adhesion to concrete of hot applied sealant-systems with or without priming simulating the moving of concrete pavement slabs during cooling conditions in wintertime.

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).

prEN 13880-6, Hot applied joint sealants — Part 6: Test method for the preparation of samples for testing.

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

prEN 14188-1:2001, Joint fillers and sealants — Part 1: Specifications for hot applied sealants.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN 14188-1:2001 and the following apply.

3.1

adhesion failures

surface area of the concrete test blocks from which the sealant is completely separated is to be evaluated for adhesive failure, calculated to the nearest 10 mm²

3.2

cohesion failures

cohesion failures are the sum of the superficial areas of any ruptures on the faces of the material to the nearest 5 mm² and any cavity exceeding 3 mm in depth, measured normal to the face of the test specimen

4 Principle

The purpose of this test is to establish whether sealants will remain cohesive and bond to concrete when subjected to discontinuous accelerated extension steps in accordance with prEN 14188-1.

5 Apparatus

5.1 Tensile test rig

The tensile test rig consists of:

- an apparatus which allows the test specimen to be inserted into clamps, conveniently and without disturbing the specimen before, during or after removal. The test specimen shall be fastened in the clamps so that any separate movement is avoided;
- if the apparatus is capable of testing a number of test specimens simultaneously, it shall not be significantly
 affected by the premature failure of one or more test specimens;