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# JOINT FILLERS AND SEALANTS - TEST METHODS FOR PREFORMED JOINT SEALS

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN 14840

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#### **English Version**

# Joint fillers and sealants - Test methods for preformed joint seals

Produits d'obturation et de scellement de joints - Méthodes d'essai pour les joints d'étanchéité moulés

Fugeneinlagen und Füllstoffe - Prüfverfahren für vorgeformte Fugenprofile

This European Standard was approved by CEN on 16 August 2005.

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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 Central Secretariat has the same status as the official versions.

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## EN 14840:2005 (E)

Contents				
Foreword3				
1	Scope	4		
2	Normative references	4		
3	Terms and definitions	4		
4	Test methods	4		
4.1	Tensile strength and elongation at break	4		
4.2	Compression set in air	4		
4.2.1	General			
4.2.2	Compression set at 70 °C	5		
4.2.3	Compression set at low temperature (-25 °C)	5		
4.3	Accelerated ageing in air	5		
4.4	Stress relaxation in compression	5		
4.5	Recovery at low and high temperatures	5		
4.5.1	Test principle	5		
4.5.2	Apparatus and materials	5		
4.5.3	Procedure			
4.5.4	Calculation and expression of result	6		
4.5.5	Precision	6		
4.6	Ozone resistance	6		
4.7	Protection against over-extension	6		
4.8	Function testing for cold climate areas	7		
4.8.1	General	7		
4.8.2	Apparatus	7		
4.8.3	Test specimens	8		
4.8.4	Procedure	8		
4.8.5	Calculation and expression of result			
4.8.6	Precision			
5	Test report	11		
Riblio	graphy	12		
טווטוט	. Aιαριιλ			

EN 14840:2005 (E)

### **Foreword**

This European Standard (EN 14840:2005) 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of an identical text or by endorsement, at the latest by April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

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

#### EN 14840:2005 (E)

#### 1 Scope

This European Standard specifies the test methods for preformed joint seals made of vulcanised rubber for use in concrete pavements.

#### 2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 37, Rubber, vulcanised or thermoplastic — Determination of tensile stress-strain properties

ISO 188, Rubber, vulcanized or thermoplastic -- Accelerated ageing and heat resistance tests

ISO 815, Rubber, vulcanised or thermoplastic — Determination of compression set at ambient, elevated or low temperatures

ISO 1431-1, Rubber, vulcanised or thermoplastic — Resistance to ozone cracking — Part 1:Static and dynamic strain testing

ISO 3384, Rubber, vulcanised or thermoplastic — Determination of stress relaxation in compression at ambient and at elevated temperatures

ISO 2285, Rubber, vulcanized or thermoplastic -- Determination of tension set under constant elongation, and of tension set, elongation and creep under constant tensile load

ISO 5893, Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification

#### 3 Terms and definitions

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

#### 4 Test methods

#### 4.1 Tensile strength and elongation at break

The tensile strength and elongation at break shall be determined by the method specified in ISO 37. Dumbbell shaped test pieces of types 1, 2, 3 or 4 shall be used. The test report shall report the type of test pieces used.

NOTE Type 2 should be the preferred type.

#### 4.2 Compression set in air

#### 4.2.1 General

The measurements shall be carried out – if possible – in the direction of compression of the seal in service.



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