

# Joint fillers and sealants —

## Part 3: Specifications for preformed joint seals

The European Standard EN 14188-3:2006 has the status of a  
British Standard

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# National foreword

This British Standard is the official English language version of EN 14188-3:2006.

The UK participation in its preparation was entrusted by Technical Committee B/510, Road materials, to Subcommittee B/510/3, Materials for concrete roads, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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## Summary of pages

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English Version

## Joint fillers and sealants - Part 3: Specifications for preformed joint seals

Produits de scellement de joints - Partie 3 : Spécifications  
pour les joints d'étanchéité moulés

Fugeneinlagen und Fugenmassen - Teil 3: Anforderungen  
an elastomere Fugenprofile

This European Standard was approved by CEN on 12 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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## Foreword

This European Standard (EN 14188-3:2006) 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of an identical text or by endorsement, at the latest by July 2006, and conflicting national standards shall be withdrawn at the latest by September 2007.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

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

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

EN 14188-2, *Joint fillers and sealants — Part 2: Specifications for cold applied joint sealants.*

EN 14188-3, *Joint fillers and sealants — Part 3: Specifications for preformed joint seals.*

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## 1 Scope

This European Standard specifies requirements for preformed joint seals made of vulcanised rubber for concrete pavements.

General requirements for finished joint seals are also given. This European Standard is applicable to joint seals for joints in new concrete pavements and maintenance work in concrete highways.

## 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 14840, *Joint fillers and sealants — Test methods for preformed joint seals*

EN ISO 9001, *Quality management systems — Requirements (ISO 9001:2000)*

ISO 48, *Rubber, vulcanised or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 3302-1, *Rubber — Tolerances for products — Part 1: Dimensional tolerances*

## 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

### 3.1

#### **joint**

vertical discontinuity between the adjacent faces of slabs in the concrete layer of a pavement, formed for the purpose of providing some movement capability

### 3.2

#### **joint chamber**

cut into the upper part of the joint to offer a seating for the preformed joint seals. The width of the chamber depends on the movement capability of the preformed joint seals. The bottom of the chamber supports the preformed joint seals to withstand vertical forces by traffic

### 3.3

#### **preformed joint seals**

extruded (preformed) and vulcanised elastic rubber profile that, when inserted by special machines into the joint chamber, seals the joint by compression reaction to appropriate surfaces within the joint chamber to fill the joint and to prevent ingress of water

**NOTE** The behaviour of a preformed joint seals is mainly influenced by the elastomer. In this application mainly the following elastomers are used:

- EPDM rubber: Ethylen-Propylen-Dien-Monomer rubber,
- CR rubber: Chloroprene Rubber.