

**Flexible sheets for waterproofing -
Waterproofing of concrete bridge decks
and other concrete surfaces trafficable
by vehicles - Determination of water
absorption**

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concrete bridge decks and other concrete surfaces
trafficable by vehicles - Determination of water
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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14223:2006 sisaldab Euroopa standardi EN 14223:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.02.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14223:2006 consists of the English text of the European standard EN 14223:2005.</p> <p>This document is endorsed on 27.02.2006 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:</p> <p>This European Standard specifies a test method for the determination of water absorption in reinforced bitumen sheets which could influence the functional behaviour of these sheets.</p>	<p>Scope:</p> <p>This European Standard specifies a test method for the determination of water absorption in reinforced bitumen sheets which could influence the functional behaviour of these sheets.</p>
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ICS 91.100.50

Võtmesõnad: appointments, defini, preparation, protective coat, roads, sampling, sampling methods, sealing, specification (approval), specifications, water absorption, water absorption tests, water proof sheetings, water-absorption tests, waterproofing, waterproofing materials

ICS 91.100.50

English Version

**Flexible sheets for waterproofing - Waterproofing of concrete
bridge decks and other concrete surfaces trafficable by vehicles
- Determination of water absorption**

Feuilles souples d'étanchéité - Etanchéité des ponts et
autres surfaces en béton circulables par les véhicules -
Détermination de l'absorption d'eau

Abdichtungsbahnen - Abdichtungen für Betonbrücken und
andere Verkehrsflächen auf Beton - Bestimmung der
Wasserabsorption

This European Standard was approved by CEN on 26 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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Contents

Page

Foreword.....	3
1 Scope.....	4
2 Normative references	4
3 Terms and definitions	4
4 Test method	4
4.1 Principle	4
4.2 Apparatus and materials.....	4
4.3 Preparation of test specimens.....	5
4.4 Drying and conditioning of the test specimens	5
4.5 Procedure.....	5
4.6 Expression of results	5
4.6.1 Calculation	5
4.6.2 Precision	6
4.7 Test report.....	6

Foreword

This document (EN 14223:2005) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by BSI.

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 June 2006, and conflicting national standards shall be withdrawn at the latest by June 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.

1 Scope

This European Standard specifies a test method for the determination of water absorption in reinforced bitumen sheets which could influence the functional behaviour of these sheets.

NOTE It is primarily the reinforcement's ability to absorb water which is examined by this test.

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 13416, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Rules for sampling*

prEN 14695, *Flexible sheets for waterproofing — Reinforced bitumen sheets for waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Definitions and characteristics*

ISO 5725-2, *Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13416, prEN 14695 and the following apply.

3.1

water absorption

increase in mass of test specimen after immersion in water expressed as a percentage

4 Test method

4.1 Principle

The water absorption of the reinforced bitumen sheet is measured after the test specimen has been immersed in water for a defined period and determined as the increase in mass of the test specimen.

4.2 Apparatus and materials

- a) *Balance*, capable of measurements to the nearest 0,1 g.
- b) *Water bath*, capable of maintaining a temperature of $(23 \pm 3) ^\circ\text{C}$.
- c) *Chamber (or laboratory)*, capable of maintaining a temperature of $(23 \pm 3) ^\circ\text{C}$ and $(50 \pm 5) \% \text{RH}$.
- d) *Distilled water*, or de-ionized water.
- e) *Equipment for hanging test specimens*, without damaging the specimens.
- f) *Steel wire brush*, medium hard.