

Slurry surfacing - Test methods - Part 2: Determination of residual binder content including preparation of samples

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 12274-2:2018 sisaldab Euroopa standardi EN 12274-2:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 12274-2:2018 consists of the English text of the European standard EN 12274-2:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Slurry surfacing - Test methods - Part 2: Determination of residual binder content including preparation of samples

Matériaux bitumineux coulés à froid - Méthode d'essai
- Partie 2: Détermination de la teneur en liant résiduel
y compris la préparation des échantillons

Dünne Asphaltdeckschichten in Kaltbauweise -
Prüfverfahren - Teil 2: Bestimmung des
Bindemittelgehaltes einschließlich
Probenvorbereitung

This European Standard was approved by CEN on 13 November 2017.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 12274-2:2018) 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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12274-2:2003.

Compared with EN 12274-2:2003, the following changes have been made:

- a) binder content by ignition is enabled using EN 12697-39;
- b) an alternative method to oven-drying prior to binder extraction can be used with provision for collection of water during the solvent extraction process, as specified in EN 12697-1:2012, Annex B.

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

- EN 12274-1, *Slurry surfacing – Test methods – Part 1: Sampling of slurry surfacing mixture*
- EN 12274-2, *Slurry surfacing – Test methods – Part 2: Determination of residual binder content including preparation of samples*
- EN 12274-3, *Slurry surfacing – Test methods – Part 3: Consistency*
- EN 12274-4, *Slurry surfacing – Test methods – Part 4: Determination of cohesion of the mix*
- EN 12274-5, *Slurry surfacing – Test methods – Part 5: Determination of the minimum binder content and wearing resistance*
- EN 12274-6, *Slurry surfacing – Test methods – Part 6: Rate of application*
- EN 12274-7, *Slurry surfacing – Test methods – Part 7: Shaking abrasion test*
- EN 12274-8, *Slurry surfacing – Test methods – Part 8: Visual assessment of defects*

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

1 Scope

This European Standard specifies test methods for determining the residual binder content of samples of slurry surfacing mixtures.

This document describes the method for preparing the specimens and for removing water from the samples before carrying out the extraction test.

The method described in this European Standard needs to be used only to determine the quantity of binder and not to investigate its quality.

This European Standard applies to slurry surfacing to be used in surface layers for roads, airfields and other trafficked areas.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12274-1, *Slurry surfacing - Test methods - Part 1: Sampling for binder extraction*

EN 12697-1:2012, *Bituminous mixtures - Test methods for hot mix asphalt - Part 1: Soluble binder content*

EN 12697-3, *Bituminous mixtures - Test methods for hot mix asphalt - Part 3: Bitumen recovery: Rotary evaporator*

EN 12697-4, *Bituminous mixtures - Test methods - Part 4: Bitumen recovery: Fractionating column*

EN 12697-39, *Bituminous mixtures - Test methods for hot mix asphalt - Part 39: Binder content by ignition*

3 Principle

Water is removed from the sample by oven-drying or by collection during the solvent extraction process.

The soluble binder content of the sample is determined in accordance with EN 12697-1:2012, Clause 5.

Binder content by non-extractive method such as ignition (e.g. according to EN 12697-39) can be used provided a correlation has been demonstrated.

In case of dispute, EN 12697-1:2012, Clause 5 shall be used.

4 Apparatus

4.1 Apparatus used for preparation of samples

- 1) Oven, with a suitable capacity and capable of holding the required temperatures.
- 2) Balance having a suitable range capable of weighing a sample to the nearest 0,1 g.
- 3) Container, comprising a metal tray or pot.
- 4) End-rounded spatula or metal rod.
- 5) Sampling container.