



SLOVENSKI STANDARD

SIST EN 12274-1:2018

01-maj-2018

Nadomešča:
SIST EN 12274-1:2002

Tankoplastne prevleke po hladnem postopku - Preskusne metode - 1. del: Vzorčenje

Slurry surfacing - Test methods - Part 1: Sampling of slurry surfacing mixture

Dünne Asphaltsschicht in Kaltbauweise - Prüfverfahren - Teil 1: Probenahme

Matériaux bitumineux coulés à froid - Méthode d'essai - Partie 1: Echantillonnage de
Matériaux Bitumineux Coulés à Froid

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Ta slovenski standard je istoveten z: EN 12274-1:2018

ICS:

93.080.20 Materiali za gradnjo cest Road construction materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12274-1

March 2018

ICS 93.080.20

Supersedes EN 12274-1:2002

English Version

Slurry surfacing - Test methods - Part 1: Sampling of slurry surfacing mixture

Matériaux bitumineux coulés à froid - Méthode d'essai
- Partie 1 : Matériau d'échantillonnage de matériau
bitumineux coulé à froid

Dünne Asphaltdeckschichten in Kaltbauweise -
Prüfverfahren - Teil 1: Probenahme

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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European foreword

This document (EN 12274-1:2018) 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 1:2003.

Compared with EN 12274 1:2003, the following changes have been made:

- a) the position of when to take a sample from production has been defined;
- b) an informative annex has been added to evaluate sampling after laying.

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.

EN 12274-1:2018 (E)**1 Scope**

This European Standard applies to slurry surfacing for roads, airfields and other trafficked areas.

This European Standard specifies a method for sampling of slurry surfacing mixtures from production during laying.

A method for sampling from the road surface after laying is described in an informative annex (Annex A) for evaluation purposes.

Production testing needs operators with good practice and is carried out provided there are no specific local or other national regulations that are required to be followed.

WARNING - The use of this standard may involve hazardous materials, operations and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of the standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2 Apparatus for sampling**2.1 Suitable containers with a capacity of minimum 0,5 l**

In order to achieve the amount of sample needed, several containers may be used. For closing the containers a tightly fitting lid is recommended.

A sampling frame to hold one or more containers may be used.

2.2 Stirring rod with a diameter of 20 mm to 30 mm and of suitable length

In order to achieve a homogeneous sample, stirring might be required.

3 Procedure for sampling

- 1) All samples of the slurry surfacing mixture shall be taken during production, immediately before being laid. No sample shall be taken until the laid material appears uniform and homogeneous. No sample shall be taken at the very beginning or end of production. The sample has to be taken until the machine has laid on road at least 30 linear metres of material.

NOTE 1 For small machines used on footways and cycle ways the sample can be taken at any time during production before being laid, this can also be from a batch mix.

- 2) Take the sample by holding the container(s) in the full flow of the discharging mixture until it is (each are) full but not overflowing.

NOTE 2 A sample frame is a convenient and safe method to hold the containers.

- 3) Samples of slurry surfacing mixture shall be packed and stored so that no contamination or damage to the sample takes place.
- 4) If the sample is large or has to be divided for testing then it may be necessary to stir the sample continuously until the slurry surfacing mixture has achieved an initial set to ensure all the aggregate particles remain in suspension and do not segregate.

4 Sample labelling

The sampling report shall contain the minimum information:

- a) name of the Producer (Contractor);
- b) type of slurry surfacing (e.g. base layer or surface layer of microsurfacing; aggregate origin and grading; modified or unmodified slurry surfacing; fibre type; etc.);
- c) date of sampling;
- d) identification of the slurry surfacing machine;
- e) designation of samples ;
- f) location of sampling and site name;
- g) possible additional information:
- h) name of the sampling organization;
- i) reference to this European Standard;
- j) any deviations from the procedure described in the standard.

Optional information:

- k) weather conditions;
- l) emulsion origin;
- m) time of sampling.

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Annex A (informative)

Procedure for sampling after laying

A.1 General

- 1) Self-adhesive masking tape covering a minimum area of 0,1 m² shall be fixed on the surface to obtain a representative sample.
- 2) The position of the tape shall be recorded and for roads shall be at least 30 m from the start of production to ensure a homogeneous mixture.

NOTE 1 Samples can be conveniently obtained from appropriately positioned masked ironwork e.g. utility covers.

- 3) The tape shall be similar to that used for the protection of ironworks during road resurfacing, and therefore capable of adhering to steel at ambient road temperatures. Minimum thickness of 0,2 mm and minimum breaking load of $5,8 \times 10^{-3}$ kN/mm.
- 4) After laying and the slurry surfacing has set, the sample is removed together with the masking tape from the surface.
- 5) The total mass of the sample and masking tape and area of the sample may be optionally recorded (to an accuracy of ± 5 %).

NOTE 2 It is useful to know the mass per unit area of the masking tape so that this can be used to calculate the actual slurry surfacing mass.

- 6) Slurry surfacing sample is removed from the masking tape, noting any residual binder or bond coat adhering to the masking tape.
- 7) Samples of slurry surfacing shall be packed and stored so that no contamination or damage to the sample takes place.

A.2 Sample labelling

The sampling report shall contain the information given in Clause 4.