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Bitumen and bituminous binders - Determination of adhesivity of bituminous emulsions by water immersion test

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13614

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Supersedes EN 13614:2011

#### **English Version**

# Bitumen and bituminous binders - Determination of adhesivity of bituminous emulsions by water immersion test

Bitumes et liants bitumineux - Détermination de l'adhésivité des émulsions bitumineuses par l'essai d'immersion dans l'eau Bitumen und bitumenhaltige Bindemittel -Bestimmung des Haftverhaltens von Bitumenemulsionen bei Wasserlagerung

This European Standard was approved by CEN on 1 March 2021.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

#### EN 13614:2021 (E)

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#### **European foreword**

This document (EN 13614:2021) has been prepared by Technical Committee CEN/TC 336 "Bituminous binders", the secretariat of which is held by AFNOR.

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 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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 13614:2011.

The main changes with respect to the previous edition are listed below:

- curing and conditioning the coated aggregates within a heat resistant glass dish in the form of a monolayer of materials instead of placing them into a beaker (8.2.4 and 8.3.5);
- making the assessment under water, which can be replaced if dirty, with the help of an appropriate desk lamp (8.2.5 and 8.3.7);
- no requirements for a specific thermometer (6.9) since room temperature can be checked with ordinary means. After drying, aggregates are to be left to cool down to room temperature before starting the test procedure (8.1 and 8.3.1);
- acceptable tolerance on conditioning time (8.3.6) is reduced from  $\pm 4 \text{ h}$  to  $\pm 2 \text{ h}$ ;
- guidance for the marking of covered surface area (Annex A) is improved by complementing the sketches with actual pictures.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

#### 1 Scope

This document specifies a method for determining the adhesion of a bituminous emulsion coated onto aggregate when immersed in water.

The method considers two different aspects of adhesivity, i.e. immediate adhesivity and water effect on binder adhesion.

The method may be used with a reference aggregate. In that case, it measures the intrinsic adhesion behaviour of a bituminous emulsion. The method may also be used with a specific aggregate as used on a job site.

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

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 58, Bitumen and bituminous binders — Sampling bituminous binders

EN 12594, Bitumen and bituminous binders — Preparation of test samples

EN 13043, Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas

EN 13808, Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions

EN 1428, Bitumen and bituminous binders — Determination of water content in bituminous emulsions — Azeotropic distillation method

EN 1431, Bitumen and bituminous binders — Determination of residual binder and oil distillate from bitumen emulsions by distillation

EN 16849, Bitumen and bituminous binders — Determination of water content in bituminous emulsions — Method using a drying balance

EN ISO 3696, Water for analytical laboratory use — Specification and test methods (ISO 3696)

### koniec náhľadu – text ďalej pokračuje v platenej verzii STN