

**Bituumen ja bituumensideained. Katioonsete
bituumenemulsioonide määratlemise alused**

Bitumen and bituminous binders - Framework for
specifying cationic bituminous emulsions

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13808:2007 sisaldab Euroopa standardi EN 13808:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 15.07.2005 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 04.05.2005.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13808:2007 consists of the English text of the European standard EN 13808:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 15.07.2005 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 04.05.2005.

The standard is available from Estonian standardisation organisation.

ICS 91.100.50, 93.080.20

Võtmesõnad: bituumen, bituumensideained, tootmisohje, tüübikatsetus, vastavushindamine

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Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

ICS 91.100.50; 93.080.20

English version

Bitumen and bituminous binders - Framework for specifying cationic bituminous emulsions

Bitumes et liants bitumineux - Cadre de spécifications pour les émulsions cationiques de bitume

Bitumen und bitumenhaltige Bindemittel - Rahmenwerk für die Spezifizierung kationischer Bitumenemulsionen

This European Standard was approved by CEN on 1 March 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European standard (EN 13808:2005) 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 November 2005, and conflicting national standards shall be withdrawn at the latest by February 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 Construction Products Directive (89/106/EEC).

For relationship with EU Construction Products Directive, see informative Annex ZA, which is an integral part of this European standard.

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 the requirements for performance characteristics of cationic bituminous emulsion classes which are suitable for use in the construction and maintenance of roads, airfields and other paved areas.

This European standard applies to emulsions of pure bitumen, or of fluxed bitumen, or of cut back bitumen and to emulsions of polymer modified bitumen, or of polymer modified fluxed bitumen, or of polymer modified cut-back bitumen, which also includes latex modified bituminous emulsions.

NOTE 1 Within Europe several types of cationic bituminous emulsions are used. Depending on traditional practices, different binder contents may be used for the same purpose.

The framework for specifying cationic bituminous emulsions in this European standard provides a basis for quality agreements between suppliers and clients. Care should be taken to make class selections which are compatible and realistic.

NOTE 2 For the purposes of this European standard, the term “% (m/m)” is used to represent the mass fraction.

2 Normative references

The following referenced European standards are indispensable for the application 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 1425, *Bitumen and bituminous binders – Characterization of perceptible properties*

EN 1426, *Bitumen and bituminous binders – Determination of needle penetration*

EN 1427, *Bitumen and bituminous binders – Determination of softening point – Ring and Ball method*

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

EN 1429, *Bitumen and bituminous binders – Determination of residue on sieving of bitumen emulsions, and determination of storage stability by sieving*

EN 1430, *Bitumen and bituminous binders – Determination of particle polarity of bitumen emulsions*

EN 1431, *Bitumen and bituminous binders – Determination of recovered binder and oil distillate from bitumen emulsions by distillation*

EN 12591, *Bitumen and bituminous binders – Specifications for paving grade bitumens*

EN 12595, *Bitumen and bituminous binders – Determination of kinematic viscosity*

EN 12596, *Bitumen and bituminous binders – Determination of dynamic viscosity by vacuum capillary*

EN 12597:2000, *Bitumen and bituminous binders – Terminology*

EN 12846, *Bitumen and bituminous binders – Determination of efflux time of bitumen emulsions by the efflux viscometer*

EN 12847, *Bitumen and bituminous binders – Determination of settling tendency of bitumen emulsions*

EN 12848, *Bitumen and bituminous binders – Determination of mixing stability with cement of bitumen emulsions*

EN 12849, *Bitumen and bituminous binders – Determination of penetration power of bitumen emulsions*

EN 13074, *Bitumen and bituminous binders – Recovery of binder from bitumen emulsions by evaporation*

EN 13075-1, *Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bitumen emulsions, mineral filler method*

EN 13075-2, *Bitumen and bituminous binders – Determination of breaking behaviour – Part 2: Determination of fines mixing time of cationic bitumen emulsions*

EN 13357, *Bitumen and bituminous binders – Determination of the efflux time of petroleum cut-back and fluxed bitumens*

EN 13398, *Bitumen and bituminous binders – Determination of the elastic recovery of modified bitumen*

EN 13587, *Bitumen and bituminous binders – Determination of the tensile properties of bituminous binders by the tensile test method*

EN 13588, *Bitumen and bituminous binders – Determination of cohesion of bituminous binders with pendulum test*

EN 13589, *Bitumen and bituminous binders – Determination of the tensile properties of modified bitumen by the force ductility method*

EN 13614, *Bitumen and bituminous binders – Determination of adhesivity of bitumen emulsions by water immersion test*

EN 13703, *Bitumen and bituminous binders – Determination of deformation energy*

EN 14023, *Bitumen and bituminous binders – Framework specification for polymer modified bitumens*

prEN 14733:2003, *Bitumen and bituminous binders – Bituminous emulsions, fluxed and cut-back bitumen factory production control*

prEN 14769:2003, *Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV)*

prEN 14895, *Bitumen and bituminous binders – Stabilisation of binder from bituminous emulsion or from cut-back and fluxed bitumen*

prEN 14896, *Bitumen and bituminous binders – Determination of dynamic viscosity of bitumenous emulsions – Rotating spindle viscometer method*

EN ISO 3838, *Crude petroleum and liquid or solid petroleum products – Determination of density or relative density – Capillary-stoppered pycnometer and graduated bicapillary pycnometer methods (ISO 3838:2004)*

3 Term and definitions

For the purposes of this European standard, the terms and definitions given in EN 12597:2000 apply.

4 Abbreviation terms, providing an expression in letters and numbers

Abbreviation terms, providing an expression in letters and numbers, are used to describe important characteristics of cationic bituminous emulsions, i.e. emulsion polarity, binder content, binder type and breaking value shall be in accordance with Table 1.