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NSAI Standards

Irish Standard
I.S. EN 13632:2010

Bitumen and bituminous binders - Visualisation of polymer dispersion in polymer modified bitumen

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13632

May 2010

ICS 75.140; 91.100.50

Supersedes EN 13632:2003

English Version

Bitumen and bituminous binders - Visualisation of polymer dispersion in polymer modified bitumen

Bitumes et liants bitumineux - Visualisation de la dispersion des polymères dans les bitumes modifiés par des polymères

Bitumen und bitumenhaltige Bindemittel - Visualisierung der Polymerverteilung in polymermodifiziertem Bitumen

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Foreword

This document (EN 13632:2010) has been prepared by Technical Committee CEN/TC 336 “Bituminous binders”, the secretariat of which is held by AFNOR/BNPé.

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of an identical text or by endorsement, at the latest by November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

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

This document supersedes EN 13632:2003.

Annex A is informative.

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1 Scope

This European Standard specifies a method for visualisation of the polymer distribution in polymer modified bitumen by fluorescent microscopy.

The method is applicable for most of the commercially used polymers, but before the method is used it should be examined whether the test is applicable for the actual polymer.

The method should only be used for identification purposes, i.e. in connection with production control.

NOTE Sample preparation and treatment have an important influence on the test results and it is essential to follow strictly the method described to achieve comparable results.

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

2 Normative references

The following referenced documents 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 12594, *Bitumen and bituminous binders — Preparation of test samples*

3 Principle

A sample of polymer modified bitumen is homogenised by gentle stirring and poured into a preheated mould. After a controlled cooling procedure to ambient temperature the sample is cooled below – 20 °C for a minimum period of time. The bitumen layer is broken into small pieces and the freshly broken surface is viewed through a microscope with a magnification of 25 times to 500 times. The views can be stored photographically or electronically.

4 Apparatus

4.1 Epifluorescence microscope, (incident light excitation) with an appropriate light source and filter systems.

NOTE Examples of light source and filter system are given in Annex A.

4.2 Freezer or solid carbon dioxide.

4.3 Sharp tool.

Scissors shall not be used.

4.4 Aluminium basin, disposable, approximate height 35 mm, approximate diameter 70 mm.

4.5 Porcelain evaporating basin, diameter 150 mm, height 63 mm (approximate volume: 600 ml).

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