

Irish Standard I.S. EN 12697-53:2019

Bituminous mixtures - Test methods -Part 53: Cohesion increase by spreadability-meter method

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I.S. EN 12697-53:2019

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National Foreword

I.S. EN 12697-53:2019 is the adopted Irish version of the European Document EN 12697-53:2019, Bituminous mixtures - Test methods - Part 53: Cohesion increase by spreadability-meter method

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English Version

Bituminous mixtures - Test methods - Part 53: Cohesion increase by spreadability-meter method

Mélanges bitumineux - Méthodes d'essai - Partie 53 : Montée en cohésion par la méthode du maniabilimètre Asphalt - Prüfverfahren - Teil 53: Kohäsionszunahmemessung durch Ausbreitmaßmethode

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EN 12697-53:2019 (E)

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EN 12697-53:2019 (E)

European foreword

This document (EN 12697-53:2019) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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EN 12697-53:2019 (E)

1 Scope

This document specifies a method to measure the spreadability characteristics of bituminous mixtures which are able to vary with time. It can be used for the determination of the delay between manufacturing and laying. It is intended to be assistance for bituminous mixtures design rather than a type test.

This document applies to bituminous mixtures both those made up in laboratory and those resulting from work site sampling, with an upper aggregate size not larger than 31,5 mm. It is not applicable to mastic asphalt.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 Principle

The aim of the test is to determine the cohesion increase of a bituminous mixture in fixed temperature and hygrometry conditions, using a spreadability-meter.

The cohesion increase test consists of measuring of the resistance against the shear due to the progress of a piston in a mould filled with the bituminous mixture to be tested (Figure 1). The cohesion of the bituminous mixture increases as the shear force increases.



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