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English Version

Bituminous binders - Determination of breaking behaviour and immediate adhesivity of cationic bituminous emulsions with 2/4 mm aggregate

Bitumes et liants bitumineux - Détermination du comportement à la rupture et de l'adhésivité immédiate des émulsions cationiques de bitume avec un granulat de 2/4

Bitumen und bitumenhaltige Bindemittel - Bestimmung der Brechzeit und des kurzfristigen Haftverhaltens von kationischen Bitumenemulsionen mit Gesteinskörnung 2/4 mm

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Foreword

This document (CEN/TS 16346:2012) has been prepared by Technical Committee CEN/TC 336 "Bitumimous Binders", the secretariat of which is held by AFNOR/BN Pétrole.

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1 Scope

This Technical Specification specifies a method for the determination of the breaking and immediate adhesivity behaviour of cationic bituminous emulsions in contact with an aggregate. The method applies to emulsions used for surface dressing applications and can be used for formulation and production control purposes.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 of roads, airfields and other trafficked areas

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

full breaking

stage at which, during the mixing process between aggregate particles and emulsion conducted as specified in 8.2, all aggregate particles have agglomerated into a single compact mass

3.2

breaking time

time in seconds, counted from the start of the mixing process, until full breaking (3.1) is reached

3.3

breaking behaviour

appreciation of the actual degree of breaking of the emulsion after the mixture has reached the full breaking stage

Note 1 to entry The breaking behaviour is measured by the number of successive washings of the final mixtures which are necessary until the water runs clear.

3.4

immediate adhesivity

qualitative assessment of the ability of the binder from a bituminous emulsion to resist the action of water just after the aggregate coating