

BS 434-1:2011+A1:2016



BSI Standards Publication

# Bitumen road emulsions – Part 1: Specification for anionic bitumen road emulsions

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### Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 18, an inside back cover and a back cover.

## Foreword

### Publishing information

This part of BS 434 is published by BSI Limited, under licence from The British Standards Institution and came into effect on 31 January 2011. It was prepared by Technical Committee B/510, *Road materials*. A list of organizations represented on this committee can be obtained on request to its secretary.

### Supersession

BS 434-1:2011+A1:2016 supersedes BS 434-1:2011, which is withdrawn.

### Relationship with other publications

The requirements for specifying cationic bitumen road emulsions are given in BS EN 13808. Recommendations for the use of these emulsions for roads and other surfaces are covered by BS 434-2.

### Information about this document

BS 434-1:2011 was a full revision of the standard, and incorporated the following principal changes:

- the requirements for cationic bitumen road emulsions have been removed;
- Appendix C, Appendix D and Appendix F have been replaced by references to relevant test method standards. Appendix E has been partially replaced;
- the relevant requirements of new European standards have been incorporated, where appropriate.

Text introduced or altered by Amendment No.1 is indicated in the text by tags  $\boxed{A_1}$   $\langle A_1 \rangle$ . Minor editorial changes are not tagged.

### Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

*Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.*

### Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

## 1 Scope

This part of BS 434 specifies requirements for anionic bitumen emulsions used for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.

## 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.

BS 410-1, *Test sieves – Technical requirements and testing – Part 1: Test sieves of metal wire cloth*

BS 507, *Specification for ethanol for industrial use*

BS 509-1, *Acetone for industrial use – Part 1: Specification for acetone*

BS 615:1953+A2:1963, *Specification for Kohlrausch flasks*

BS 2000-0.1, *Methods of test for petroleum and its products – General introduction – Specifications – IP Standard thermometers – Section 0.1: Specifications – IP standard for thermometers (Identical with IP Annex A)*

BS 2000-0.2, *Methods of test for petroleum and its products – Part 0 – Section 0.2: Specifications for IP standard reference liquids (Identical with IP Appendix B)*

BS 2000-15, *Methods of test for petroleum and its products – Part 15: Petroleum products – Determination of pour point*

BS 6376-3, *Reagents for chemical analysis – Part 3: Specifications (second series)*

BS EN 1428, BS 2000-291, *Methods of test for petroleum and its products – BS 2000-291: Bitumen and bituminous binders – Determination of water content in bituminous emulsions – Azeotropic distillation method (Identical with IP 291-2000)*

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

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

BS EN 12591:2009, *Bitumen and bituminous binders – Specifications for paving grade bitumens*

 BS EN 12597, *Bitumen and bituminous binders – Terminology* 

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

BS EN ISO 3170:2004, BS 2000-475:2004, *Methods of test for petroleum and its products – BS 2000-475: Petroleum liquids – Manual sampling (Identical with IP 475-2005)*

## 3 Terms and definitions

For the purposes of this part of BS 434, the following terms and definitions apply.