BS 8870:2022+A1:2023



BSI Standards Publication

Materials for roads — High friction surfacing — Specification

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Published by BSI Standards Limited 2023

ISBN 978 0 539 23915 7

ICS 93.080.20

The following BSI references relate to the work on this document:
Committee reference B/510/2
Drafts for comment 20/30396725 DC; 22/30462336 DC

Amendments/corrigenda issued since publication

Date	Text affected
March 2023	A1: see Foreword

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 March 2022. It was prepared by Subcommittee B/510/2, *Surface Treatments*, under the authority of Technical Committee B/510, *Road Materials*. A list of organizations represented on these committees can be obtained on request to their committee manager.

Supersession

BS 8870:2022+A1:2023 supersedes BS 8870:2022, which is withdrawn.

Information about this document

Text introduced by or altered by Amendment No. 1 is indicated in the text by tags A1 〈A1. Minor editorial corrections are not tagged.

Amendment A1 introduces the following principal changes:

- Table 3, Aggregate specification for HFS products has been updated;
- New Clause **8**, Routine installation, has been introduced; and
- Table Q.1, Example of an asseveration of quality has been updated.

Test laboratory accreditation. Users of this British Standard are advised to consider the desirability of selecting test laboratories to undertake testing of the high friction surfacing (HFS) that are accredited to BS EN ISO 17025.

Product testing. Users of this British Standard are advised to consider the desirability of having the HFS tested by an independent laboratory.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at bsigroup.com/standards, or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

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.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **G.1.1**, which states, “Requirements should be expressed using wording such as: ‘When tested as described in Annex A, the product shall ...’”. This means that only those products that are capable of passing the specified test will be deemed to conform to this document.

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1 Scope

This British Standard specifies requirements for performance and control procedures for high friction surfacing (HFS) products containing calcined bauxite aggregate for the surface treatment of roads and other trafficked areas.

This British Standard is applicable to both hot applied and cold applied HFS products.

NOTE Data are being collected to enable the precision for the test methods (see Annex A – Annex N) to be determined.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document[1)]. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 7941-2, *Surface friction of pavements – Part 2: Test method for measurement of surface skid resistance using the GripTester braked wheel fixed slip device*

BS EN 932-2, *Tests for general properties of aggregates – Part 2: Methods for reducing laboratory samples*

BS EN 932-5, *Tests for general properties of aggregates – Part 5: Common equipment and calibration*

BS EN 933-1:2012, *Tests for geometrical properties of aggregates – Part 1: Determination of particle size distribution – Sieving method*

BS EN 1097-6:2022, *Tests for mechanical and physical properties of aggregates – Part 6: Determination of particle density and water absorption*

BS EN 1097-8:2020, *Tests for mechanical and physical properties of aggregates – Part 8: Determination of the polished stone value*

BS EN 1463-1:2009, *Road marking materials – Retroreflecting road studs – Part 1: Initial performance requirements*

BS EN 12272-2, *Surface dressing – Test methods – Part 2: Visual assessment of defects*

BS EN 12274-8, *Slurry surfacing – Test methods – Part 8: Visual assessment of defects*

BS EN 12697-22, *Bituminous mixtures – Test method – Part 22: Wheel tracking*

BS EN 12697-27, *Bituminous mixtures – Test method – Part 27: Sampling*

BS EN 12697-33, *Bituminous mixtures – Test method – Part 33: Specimen prepared by roller compactor*

BS EN 13036-1, *Road and airfield surface characteristics – Test methods – Part 1: Measurement of pavement surface macrotexture depth using a volumetric patch technique*

BS EN 13036-4, *Road and airfield surface characteristics – Test methods – Part 4: Method for measurement of slip/skid resistance of a surface: The pendulum test*

BS EN ISO 4788, *Laboratory glassware – Graduated measuring cylinders*

BS EN ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*

BS EN ISO 13473-1, *Characterization of pavement texture by use of surface profiles – Part 1: Determination of mean profile depth*

[1)] Documents that are referred to solely in an informative manner are listed in the Bibliography.

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