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The application and use of hot- and cold-applied joint sealant systems for concrete pavements – Code of practice

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Summary of pages

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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 July 2020. It was prepared by Subcommittee B/510/3, *Materials for concrete roads*, under the authority of Technical Committee B/510, *Road materials*. A list of organizations represented on this committee can be obtained on request to its committee manager.

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Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”.

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

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

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

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

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1 Scope

This British Standard gives recommendations for the preparation of joint sealant slots and for the application and site testing of hot- and cold-applied joint sealants for use in joints in roads, airfields, exposed concrete pavements and other trafficked areas. Although it applies mainly to new work, the principles it contains apply to both new works and repairs, and recommendations for resealing.

This British Standard does not cover the application of preformed joint sealants.

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 EN 13880-8, *Hot applied joint sealants — Part 8: Test method for the determination of the change in weight of fuel resistant joint sealants after fuel immersion*

BS EN 13880-9, *Hot applied joint sealants — Part 9: Test method for the determination of compatibility with asphalt pavements*

BS EN 14187-4, *Cold applied joint sealants — Test methods — Part 4: Determination of the change in mass and volume after immersion in test fuels and liquid chemicals*

BS EN 14188-1:2004, *Joint fillers and sealants — Part 1: Specification for hot applied sealants*²⁾

BS EN 14188-2, *Joint fillers and sealants — Part 2: Specification for cold applied sealants*

3 Terms and definitions

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

3.1 adhesion

property of a sealant to stick to the sealant joint substrates

3.2 application life

time after mixing the components of a cold-applied sealant within which the material may successfully be applied to a joint at a stated temperature

3.3 bond breaker

film or thin strip material applied at the base of a slot to prevent the bottom of the sealant from adhering

3.4 compatibility

property of a sealant to remain in contact with another material without unfavourable physical or chemical interactions

3.5 construction joint

joint between pavement slabs which have been constructed at different times where one face is cast against a construction form

NOTE See [Figure 1](#) for details.

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

²⁾ This British Standard also gives an informative reference to BS EN 14188-1:2004.