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**Spray injection patching for highways
and other paved areas – Specification**

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Summary of pages

This document comprises a front cover, and inside front cover, pages i to ii, pages 1 to 10, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2019. 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 secretary.

Relationship with other publications

This British Standard is related to BS 434-2:2006, Clause 13 on patching and velocity patching. This British Standard is aligned with BS EN 13808:2013, which provides performance requirements for creating emulsion binder.

Information about this document

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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.

Use of this document

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

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.

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 standard.

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

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 British Standard specifies performance requirements and gives control procedures for spray injection patching. Spray injection patching is suitable for use on local roads and the strategic network. This British Standard is intended to be used by producers and specifiers in the public and private sector.

NOTE Spray injection patching is a product for undertaking permanent and temporary repairs to potholes, small-scale pavement repairs and pre-patching for surface dressing and slurry-surfacing. It can also be used for localized preventative maintenance.

Spray injection patching is suitable for the following treatments:

- emergency works;
- temporary patching repairs;
- pre-patching for surface dressing and slurry surfacing;
- localized preventative maintenance; and
- permanent patching repairs.

Spray injection patching is suitable for the following locations:

- local and strategic roads;
- hard shoulders;
- motorways – temporary but can be permanent where located out-with the wheel path; and
- hard running strips – un-trafficked.

Spray injection patching might be unsuitable under the following circumstances:

- permanent repairs in areas where heavy braking is likely to occur, e.g. approaches to crossings, junctions and roundabouts; and
- full lane width resurfacing.

2 Normative references

The following documents are referred to in the text in such a way that some or all their content constitutes provisions 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 EN 13043:2002, *Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas*

BS EN 13614:2011/BS 2000-521:2011, *Bitumen and bituminous binders — Determination of water sensitivity of bituminous emulsions by water immersion test*

BS EN 13808:2013, *Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions*