

PUBLISHED DOCUMENT

Surface dressing –

Guidance on the use of BS EN 12271

ICS 93.080.20



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Summary of pages

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Foreword

Publishing information

This Published Document was published by BSI and came into effect on 29 December 2006. 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.

Relationship with other publications

This Published Document provides guidance on the use of BS EN 12271 which will be implemented in the UK in January 2008 to align with the introduction of BS EN 13108.

Presentational conventions

The provisions in 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.

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.

This Published Document is not to be regarded as a British Standard.

Introduction

BS EN 12271 specifies a range of categories for properties of surface dressing to enable users to select appropriate limiting values for a wide range of uses within Europe.

Specifiers need to define BS EN 12271 categories for properties relevant to the particular end use of the surface dressing. Some example specifications for different end uses are given in Annex A.

BS EN 12271 covers surface dressing specified by performance of the finished product. It does not cover surface dressing works carried out to the purchaser's design, commonly called a recipe specification. This type of specification may continue to be used, but purchasers should be aware that they are responsible for the performance of the surface dressing provided that the works have been executed correctly.

Performance categories set out in BS EN 12271 should not be included as part of a recipe specification as this might result in the recipe being correctly placed, but the performance categories not being met.

NOTE The body responsible for the design is responsible for the performance of the surface dressing (provided that the works have been correctly executed).

1 Scope

This Published Document gives guidance on the use of BS EN 12271 in the UK. BS EN 12271 specifies the properties of surface dressing required for the surface treatment of roads and other trafficked areas.

This Published Document gives guidance on the performance requirements and control procedures for the installation of surface dressing as a product for the surface treatment of roads and other trafficked areas. It does not apply to the following:

- surface dressings designed by the purchaser; i.e. the recipe approach for which the contractor is instructed as to the rates of spread, chipping size, etc., and therefore is not responsible for performance requirements;
- surface dressing in tunnels where tunnel fire regulations apply;
- small areas under 500 m² which are not contiguous, such as patch repair surface dressing;
- airfield pavements covered by international regulations (e.g. ICAO regulations).

NOTE In BS EN 12271 "other trafficked areas" includes footways and cycleways.

2 Terms and definitions

For the purposes of this Published Document, the terms and definitions given in BS EN 12271 and the following apply.

2.1 purchaser

organization or person buying the surface dressing product

NOTE The purchaser is sometimes known as the “overseeing organization” in the UK and this might often be a local highway authority.

2.2 specifier

organization or person specifying the product who may or may not be directly employed by the purchaser or the contractor

2.3 producer

organization or entity responsible for the design and construction of the surface dressing

NOTE The producer is often called the “contractor” in the UK.

2.4 supplier

organization or entity providing the constituent materials to the producer, i.e. the supplier of the binder and the aggregate (and any other minor constituent that may be incorporated into the product)

2.5 road type (UK) road grade (EN 12271)

method, in BS EN 12271, used to link the frequency of testing to the different categories of road

NOTE 1 In this Published Document road grades have been defined by reference to the Highways Authorities’ and Utilities Committees (HAUC) New Roads and Street Works Act 1991 “Road Type” [1]. See also Road Note 39 [2] for a link to surface dressing traffic categories. For clarity the term “road type” is used throughout this document instead of “road grade”.

NOTE 2 In Northern Ireland for HAUC see The Street Works (Northern Ireland) Order 1995 [3].

NOTE 3 Although the road type has been defined in terms of the HAUC New Roads and Street Works Act 1991 it is always preferable to use actual traffic counts for designing the surface dressing where these are available.

3 Overview of BS EN 12271

BS EN 12271 covers all varieties of surface dressing including single, racked-in, double and sandwich types and more complex surface dressings such as two layers of binder plus three layers of chippings, and inverted surface dressing, in which a single surface dressing is followed immediately by, for example, a racked-in surface dressing.

BS EN 12271 is based on performance categories although the purchaser may have some limited control on components such as minimum requirements for peak binder cohesion, maximum chipping size, etc.