



BSI Standards Publication

Fences –

Part 16: Specification for powder coatings used as a plastics finish to components and mesh

Publishing and copyright information

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Foreword

Publishing information

This part of BS 1722 was published by BSI and came into effect on 31 March 2009. It was prepared by Technical Committee B/201, *Fences*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 1722 supersedes BS 1722-16:1992, which is withdrawn.

Relationship with other publications

BS 1722 is published in parts as follows:

- *Part 1: Specification for chain link fences;*
- *Part 2: Specifications for strained wire and wire mesh netting fences;*
- *Part 4: Specification for cleft chestnut pale fences;*
- *Part 5: Specification for close-boarded and wooden palisade fences;*
- *Part 7: Specification for wooden post and rail fences;*
- *Part 8: Specification for mild steel (low carbon steel) continuous bar fences and hurdles;*
- *Part 9: Specification for mild steel (low carbon steel) fences with round or square verticals and flat horizontals;*
- *Part 10: Specification for anti-intruder fences in chain link and welded mesh;*
- *Part 11: Specification for prefabricated wood panel fences;*
- *Part 12: Specification for steel palisade fences;*
- *Part 13: Chain link fences for tennis court surrounds ¹⁾;*
- *Part 14: Specification for open mesh steel panel fences;*
- *Part 16: Specification for powder coatings used as a plastics finish to components and mesh;*
- *Part 17: Specification for electric security fences – Design, installation and maintenance;*
- *Part 18: Specification for steel mesh site perimeter temporary fencing systems ²⁾.*

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.

¹⁾ Obsolescent.

²⁾ Part 18 is published as a Draft for Development (DD).

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 *The BSI guide to standardization – Section 2: Rules for the structure, drafting and presentation of British Standards*, subclause **11.3.1**, 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.

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.

Introduction

This part of BS 1722 has been structured to enable claims for compliance to be made by both the supplier and the applicator. Clause 4 gives requirements for performance under tests carried out by, for, or on behalf of the (coating powder) manufacturer. Clause 5 gives requirements for performance under tests carried out by, for, or on behalf of the (powder coating) applicator.

Fencing components may be made of low carbon steel, hot dip galvanized low carbon steel, metal sprayed low carbon steel, pregalvanized low carbon steel and meshes formed by welding wires or bright or galvanized expanding sheet. All tests are intended to be carried out on material representative of that used in the finished fence.

Experience has shown that preparation and pretreatment of the metal surface are vital to the production of satisfactory finishes. It is therefore necessary to ensure the following.

- a) The component is designed and produced to be compatible with the coating process, especially where the component is to be hot dip galvanized after manufacture, as any dressing after the galvanizing process can reduce the effective corrosion resistance.
- b) The applicator rigidly adheres to the coating powder supplier's recommendations.
- c) The coating process selected is compatible with the substrate.

1 Scope

This part of BS 1722 specifies performance requirements and describes methods for laboratory testing of powder coatings and the applied powder coatings used as a finish to fence components and mesh.

NOTE Annex A gives some guidance on the care and protection of plastics finishes.

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 1199 and BS 1200, *Specifications for building sands from natural sources*

BS 2015:1992, *Glossary of paint and related terms*

BS 3900-F2, *Methods of test for paint – Part F2: Determination of resistance to humidity (cyclic condensation)*

BS EN 197-1, *Cement – Part 1: Composition, specifications and conformity criteria for common cements*

BS EN 459-1, *Building lime – Part 1: Definitions, specifications and conformity criteria*

BS EN ISO 1518, *Paints and varnishes – Scratch test*

BS EN ISO 1519 (BS 3900-E1), *Paints and varnishes – Bend test (cylindrical mandrel)*