BRITISH STANDARD

BS 4479-7: 1990

Design of articles that are to be coated —

Part 7: Recommendations for thermally sprayed coatings

UDC 672/673:621.795:006

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

Document Sharing Hub

Full document details: BS 4479-7:1990

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Surface Coatings (other than Paints) Standards Policy Committee (SRC/-) to Technical Committee SRC/10, upon which the following bodies were represented:

British Anodising Association
Institute of Metal Finishing
Institute of Sheet Metal Engineering
Institute of Vitreous Enamellers
International Tin Research Institute
Metal Finishing Association
Welding Institute
Zinc Development Association

This British Standard, having been prepared under the direction of the Surface Coatings (other than Paints) Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1990

© BSI 10-1999

First published as BS 4479 August 1969
First revision as BS 4479-7 July 1990

The following BSI references relate to the work on this standard:
Committee reference SRC/10
Draft for comment 86/53491 DC

ISBN 0 580 17905 2

Amendments issued since publication

Amd. No.	Date	Comments

Documents
Document Sharing Hub

Full document details: BS 4479-7:1990

Contents

		Page
Committees responsible		Inside front cover
Foreword		ii
1	Scope	1
2	Definitions	1
3	General	1
4	Structural design considerations	2
5	Component design considerations	3
Appendix A Diagrams illustrating preferred and deprecated design features for articles to be coated by thermal spraying		4
Figure 1 — Interior angles		4
Figure 2 — Blind crevices		4
Figure 3 — Narrow gaps		4
Figure 4 — Crevices		5
Figure 5 — Lap joints		5
Figure 6 — Corners		5
Figure 7 — Flat surfaces		6
Figure 8 — Pockets		6
Publications referred to		Inside back cover

© BSI 10-1999

Documents
Document Sharing Hub
Full document details: BS 4479-7:1990

Foreword

This Part of BS 4479 has been prepared under the direction of the Surface Coatings (other than Paints) Standards Policy Committee and is based on a draft prepared by the Institute of Metal Finishing. The BSI Technical Committee acknowledges the contribution to this revision by the Institute[1)] and by the Committee for the Promotion of Electroplating. This Part of BS 4479 is one of a series of Parts which together form a revision of BS 4479:1969. On publication of all the Parts, BS 4479:1969 will be withdrawn. This revision of BS 4479 comprises the following Parts:

— *Part 1: General recommendations*;

— *Part 2: Recommendations for electroplated and autocatalytic coatings*;

— *Part 3: Recommendations for conversion coatings*;

— *Part 4: Recommendations for paint coatings and varnish coatings*;

— *Part 5: Recommendations for anodic oxidation coatings*;

— *Part 6: Recommendations for hot-dip metal coatings*;

— *Part 7: Recommendations for thermally sprayed coatings*;

— *Part 8: Recommendations for vitreous enamel coatings*;

— *Part 9: Recommendations for low pressure and vacuum deposited coatings*.

BS 4479 is directed towards helping to maximize the benefit obtained from coating processes. There is a wide variety of coating processes, developed and established industrially, intended to enhance or transform the surfaces of manufactured articles. However, time and money are often wasted because the design of many articles is unsuitable for the coating process to be applied. Coating is only one part of the manufacturing process and should not be ignored, or viewed in isolation, when considering the overall costs and quality.

This revision of BS 4479 has been undertaken to extend the range of coating processes covered. It is not intended to cover every conceivable design detail, type of article or service condition. Adherence to the general principles described will, however, greatly assist in the achievement of the desired results. In any case of doubt or difficulty, specialist advice in the particular type of process being considered should be sought.

This Part of BS 4479 is not a specification and should not be used as such. The recommendations are intended to provide guidance towards good practice.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

[1)] Institute of Metal Finishing.

© BSI 10-1999

Documents
Document Sharing Hub

Full document details: BS 4479-7:1990