

Specification for

**Polyvinyl acetate (PVA)
emulsion adhesives for
wood**

Co-operating organization

The Adhesives Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Adhesive Manufacturers' Association*
 Association of British Plywood & Veneer Manufacturers*
 Board of Trade
 British Furniture Manufacturers' Federated Associations*
 British Paper Bag Federation
 British Paper Box Federation
 British Plastics Federation*
 British Woodwork Manufacturers' Association*
 Chemical Industries Association
 Federation of Gelatine and Glue Manufacturers
 Gelatine and Glue Research Association
 Ministry of Aviation
 Ministry of Defence, Army Department*
 Ministry of Technology — Forest Products Research Laboratory*
 Printing, Packaging and Allied Trades Research Association
 Royal Institute of British Architects
 Wallpaper Manufacturers

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

British Chemical and Dyestuff Traders' Association
 British Radio Cabinet Manufacturers' Association
 British Rubber & Resin Adhesive Manufacturers' Association
 British Railways Board
 Casein Glue Manufacturers Association
 Cork Trade Association
 Federation of British Rubber and Allied Manufacturers
 Furniture Industry Research Association
 Timber Research & Development Association

This British Standard, having been approved by the Adhesives Industry Standards Committee and endorsed by the Chairman of the Chemical Divisional Council, was published under the authority of the General Council on 17th October, 1966

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The following BSI references relate to the work on this standard:
 Committee reference ADC/6
 Draft for comment D65/14460

Amendments issued since publication

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Foreword

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revisions of the standards to which they refer.

A complete list of British Standards, numbering over 4 000, fully indexed and with a note of the contents of each, will be found in the British Standards Yearbook, price 15s. The BS Yearbook may be consulted in many public libraries and similar institutions.

This standard makes reference to the following British Standard:

BS 3544, *Methods of test for polyvinyl acetate adhesives for wood*.

This British Standard is designed to cover close-contact adhesives for interior use and is primarily intended for the use of manufacturers and others who require means of assessing or controlling the quality of polyvinyl acetate emulsion adhesives.

The specification is based on test data obtained on commercially available adhesives, using the methods of test described in BS 3544¹⁾. Since these methods were devised, new adhesives, based on polyvinyl acetate with other additions, have become available. Their performance is being assessed and, when supporting evidence of their durability under exterior conditions is available, consideration will be given to suitable amendment of the specification to include them as an additional type.

Since this British Standard was first published, clause 4 has been amended because the previous version was superseded by the requirements given in BS EN 204:1991.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, 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⁾ BS 3544, "Methods of test for polyvinyl acetate adhesives for wood".

1 Scope

1.1 This British Standard covers requirements for polyvinyl acetate emulsion adhesives for wood and, where appropriate, refers to the methods of test described in BS 3544²⁾.

2 Resistance to freezing and thawing

2.1 After the freeze and the thaw treatment described in BS 3544, the material shall satisfy the requirements specified in 3, 4, 5 and 6, and shall not be adversely affected in other respects.

3 Freedom from staining

3.1 The material shall not produce a stain darker than the standard stain, when tested by the method described in BS 3544²⁾.

4 Strength

4.1 The material shall have an adhesive strength complying with BS EN 204 for the appropriate durability class.

5 Resistance to sustained loading

5.1 The material shall resist a load of 45.5 kgf (100 lbf) for not less than 7 days under dry conditions, when tested by the method described in BS 3544²⁾.

6 Storage

6.1 The material shall satisfy all the requirements of 2, 3, 4 and 5 after storage in its original container for a period of not less than six months (under temperature conditions specified by the manufacturer) after manufacture.

7 Instructions for use

7.1 The manufacturer shall supply, in writing, detailed instructions for the preparation, storage and use of the adhesive, including the lowest temperature at which it may be used.

8 Information to be supplied by the manufacturer

- 8.1 The user shall be informed in writing of:
- The name or trade symbol of the manufacturer;
 - The number of the manufacturer's batch constituting a unit in production;
 - Either the date of manufacture or the date by which the contents shall be used;
 - The identification of the contents of each container.
 - The classification of the adhesive, in accordance with BS EN 204.

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²⁾ BS 3544, "Methods of test for polyvinyl acetate adhesives for wood".

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