

Specification for

**Polyurethane (PUR)
foam systems suitable
for stabilization and
thermal insulation of
cavity walls with
masonry or concrete
inner and outer leaves**

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Plastics and Rubber Standards Policy Committee (PRM/-) to Technical Committee PRM/72, upon which the following bodies were represented:

- Association of Building Component Manufacturers
- Brick Development Association
- British Board of Agrément
- British Plastics Federation
- British Rigid Urethane Foam Manufacturers' Association
- Calcium Silicate Brick Association Limited
- Cavity Foam Bureau
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Construction Industries Directorate)
- Engineering Equipment and Materials Users' Association
- European Phenolic Foam Association
- Flat Roofing Contractors' Advisory Board
- Ministry of Defence
- National Federation of Roofing Contractors
- National House-building Council
- Polyethylene Foam Insulation Association
- Royal Institute of British Architects

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Ceramic Research Ltd.
- British Urethane Foam Contractors' Association (BUFCA)
- RAPRA Technology Ltd.

This British Standard, having been prepared under the direction of the Plastics and Rubber Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 April 1994

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Foreword

This British Standard has been prepared under the direction of the Plastics and Rubber Standards Policy Committee. It supersedes BS 7457:1991 which is withdrawn.

This edition introduces technical changes but it does not reflect a full review or revision of the standard. It is envisaged that this standard will be replaced by a European Standard in due course and that the European Standard will be adopted in the BS EN series.

Requirements have been included for the thermal conductivity to be designated by the manufacturer.

The installation of suitable polyurethane foam into the cavities of masonry walls is widely recognized as providing an improvement in their thermal insulation. At the same time the high strength characteristic of the material and its good adhesion to masonry has led to its being widely adopted as an effective method for stabilizing walls in which the wall ties have, by corrosion, become inoperative.

The successful installation of polyurethane foam into external cavity walls relies on two standards, i.e. this standard which specifies the requirements for the polyurethane foam systems, and the code of practice, BS 7456:1991, which gives recommendations designed to achieve the optimum installation of the polyurethane foam systems specified in this standard in masonry or concrete cavity walls.

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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.