AS 14448:2020

Australian STANDARD®

Low modulus adhesives for exterior tile finishing (ISO 14448:2016, MOD)

STANDARDS Australia

AS 14448:2020

This Australian Standard® was prepared by BD-044, Fixing of Ceramic, Natural and Reconstituted Stone Tiles. It was approved on behalf of the Council of Standards Australia on 19 March 2020.

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The following are represented on Committee BD-044:

Association of Consultants in Access Australia
Australian Ceramic Society
Australian Industry Group
Australian Institute of Waterproofing
Australian Stone Advisory Association
Australian Tile Council
CSIRO
Master Builders Australia
Surface Coatings Association Australia
Swimming Pool and Spa Association of Australia
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Tiles and Tiling Industry Association Australia

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Preface

This Standard was prepared by the Standards Australia Committee BD-044, Fixing of Ceramic, Natural and Reconstituted Stone Tiles.

The objective of this Standard is to specify a quality standard and test methods for a low modulus adhesive composed of chemical reaction resins and used for the installation of tiles to exterior walls.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 14448:2016, *Low modulus adhesives for exterior tile finishing*.

The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to ISO 14448:2016 for the application of this Standard in Australia.

As this document has been reproduced from an International Standard, the following applies:

(a) In the source text "this International Standard" should read "this Australian Standard".

(b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 189, *Ceramic tile*.

Australian Standard®

Low modulus adhesives for exterior tile finishing (ISO 14448:2016, MOD)

1 Scope

This International Standard specifies a quality standard and test methods for a low modulus adhesive composed of chemical reaction resins and used for the installation of tiles to exterior walls.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 37:2011, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*

ISO 188:2011, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

ISO 679:2009, *Cement — Test methods — Determination of strength*

ISO 2811-1, *Paints and varnishes — Determination of density — Part 1: Pycnometer method*

ISO 6344-2, *Coated abrasives — Grain size analysis — Part 2: Determination of grain size distribution of macrogrits P12 to P220*

ISO 8336, *Fibre-cement flat sheets — Product specification and test methods*

ISO 10364:2007, *Structural adhesives — Determination of the pot life (working life) of multi-component adhesives*

ISO 13006, *Ceramic tiles — Definitions, classification, characteristics and marking*

ISO 21948, *Coated abrasives — Plain sheets*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
pot-life
time interval during which the adhesive can be used after mixing

3.2
open time
maximum time interval after application at which tiles can be embedded in the applied adhesive and meet the specified tensile adhesion strength requirement

3.3
shelf life
time of storage under stated conditions during which an adhesive may be expected to maintain its working properties

3.4
slip
downward movement of a tile applied to a combed adhesive layer on a vertical surface

3.5
reaction resin adhesive
single- or multi-component mixture of synthetic resin, mineral fillers and organic additives in which curing occurs by chemical reaction