



ARDEX WA 100

Two Part Epoxy Adhesive for Natural Stone

Easy to use with 1:1 mixing ratio by volume

Smooth, easy to blend consistency - Non slump capability

Ideal for natural stones – will not stain or bleed through

Good chemical resistance

Suitable for fixing white and translucent marble, creamy white colour

Can be used in immersed conditions such as swimming pools

CONFORMS TO ISO 13007



ARDEX Australia Pty Ltd
2 Buda Way
Kemps Creek NSW 21478
1300 788 780
technicalservices@ardexaustralia.com
ardexaustralia.com

ARDEX New Zealand Ltd
15 Alfred Street
Onehunga, Auckland 1061
0880 227 339
info@ardexnz.com
ardex.co.nz

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DESCRIPTION

ARDEX WA100 is a high strength, creamy white, two part epoxy stone adhesive that exhibits superior bond strength. It is specially designed for the fixing of natural stone such as marble and granite, including those sensitive to moisture, on vertical surfaces such as walls and overhangs in interior and exterior applications. It is also ideal for large format ceramic and porcelain tiles.

ARDEX WA100 can also be used for the fixing and bedding of natural stone such as marble and granite slabs on walls and floors, bench tops and stair risers.

FOR FIXING (TILE TYPES)

All types of natural stone, plus fully vitrified, ceramic and porcelain tiles.

TO (SUBSTRATES)

- Concrete, renders, screeds
- Medium density fibre-cement sheet, plasterboard
- Existing ceramic and stone tiles
- Autoclaved aerated concrete (AAC)
- Brick and blockwork
- Internal sheet timber

SUBSTRATE PREPARATION

The surface being adhered to must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials, as well as being sound, stable and strong enough to support the weight of the tiles or stone being fixed. Ensure surfaces are dry before tiling, with no residue or permanent damp.

Ensure that the substrate's required drying time, as given in the relevant part of AS 3958, is allowed to elapse prior to fixing the tiles.

Concrete

This includes precast, in-situ and wood floated concrete. As concrete exhibits drying shrinkage, allow to cure for at least 4 weeks prior to tiling. Any surface laitance, concrete sealers, curing compounds, and other materials should be removed from the surface prior to application. Steel trowel finished concrete should be roughened mechanically to remove laitance and provide a good key. The surface should be true and level with adequate surface profile to provide a mechanical key. Smooth surfaces and/or dense concrete greater than 35MPa must be mechanically prepared.

Cement Render/Screeds

New renders and screeds should be finished with a wood float to the required surface regularity. Screeds should be pitched to drains where required. Allow at least 7 days to cure.

Plasterboard/Medium Density Fibre-Cement Sheet

Provided that these boards are firmly and rigidly fixed to adequately support the weight of the tile or stone, they can be fixed directly. Please ensure the surface is completely clean and free of loose materials. These sheets must be fixed strictly in accordance with manufacturers instructions and be deemed suitable for the application by the manufacturer.

Existing Ceramic Tiles

These include sound, clean, glazed and unglazed tiles. If the area to be tiled is internal, tiles can be directly fixed using ARDEX WA100 without mechanically grinding the glaze, following cleaning with sugar soap using an industrial grade scourer. Rinse and allow to dry. In permanently wet areas and externally, ensure a minimum of 90% coverage of the tile or stone is achieved.

Autoclaved Aerated Concrete (AAC)

Remove loose particles from the surface.

Blockwork and Brickwork

Brickwork and blockwork must be sound, flush and level. Brickwork must be rendered, where other surfaces are not smooth and level the wall must be rendered. Ensure all voids and raked out mortar joints are filled and excess mortar pared back.

Internal Sheet Timber

Particleboard, plywood, MDF and cork, with the exception of unbonded timber such as laminated flooring or strip timber floors (e.g. cypress pine). Timber floors must be structurally sound and the maximum load deflection must not exceed 1/360 of the span. Timber floors must have good underfloor ventilation and underfloor moisture levels must be stable during the life of the flooring system. Free water sources must not be allowed under timber floors as dimensional stability will be compromised. All timber boards (new and old), must be sanded with 40 grit sand paper (or 24 grit if timber is coated/stained) to the original timber so as to achieve a suitable surface profile and to remove surface contaminants. For sheeted material e.g. particleboard flooring, tape joints with PVC ducting tape. Virgin strip timber floors must be fibre cement sheeted prior to tiling.

Painted Surfaces

Thoroughly remove painted surfaces mechanically, do not use paint stripper or solvents. Allow surface to dry after cleaning.

MIXING

It is essential to use the correct mixing ratio of 1:1 Part A : Part B by volume. Transfer the measured amount of Part A to a suitable sized mixing container and add the equal amount of hardener Part B. Mix the two components thoroughly until a uniform mixture is obtained and the adhesive is ready for use. Smaller quantities can be mixed by hand with a trowel, larger quantities can be mixed with an electric drill.

Do not apply at surface temperatures below 10°C or above 35°C. The pot life of the mixed adhesive is approximately 45 minutes at 23°C and 50% relative humidity.

FIXING TECHNIQUE

Before fixing ensure the substrate has been prepared and the tile or stone is free from dust. Tile or stone should be fixed in accordance with Australian Standard AS 3958.

For wall applications it is possible to use the spot bonding method, however ARDEX always recommends compliance with the Australian Standard. If following this method, mechanically roughen areas that are to receive ARDEX WA 100 adhesive

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spots, remove dust with a stiff brush and remove any loose particles or dust from the back of the stone, tile or substrate by wiping with a damp sponge to ensure a good, clean direct bond. Wipe dry both surfaces with a clean cloth.

Apply spots of ARDEX WA 100 on the back of the stone or tile using a minimum of 5 spots applied evenly across the back, one in each corner and one in the centre. Ensure that at least 10% coverage is achieved with the 5 spots. The final spot thickness should be a minimum of 3mm and a maximum of 25mm.

To achieve the required 10% coverage the following spot diameters are required;

Tile Size (mm)	Spot Diameter (mm)
300 x 300	50mm
600 x 600	100mm
900 x 900	150mm

For floor applications and external use, we recommend a minimum of 90% coverage on the back of the tile or stone. Spot fixing on floors is not recommended.

ARDEX WA100 has an adjustment time of 45 minutes. Please be aware of site conditions when considering these times. All tools should be cleaned with water immediately after use.

MOVEMENT JOINTS

Movement joints must be in accordance with Australian Standard AS 3958.

GROUTING/DRYING TIME

Grouting can proceed once ARDEX WA100 has hardened sufficiently so that tiles will not be dislodged, usually after approximately 8 hours at 23°C and 50% relative humidity. Allow longer for low temperatures.

The tile joints should be grouted with the appropriate ARDEX grout. For moisture sensitive stone in internal, dry locations ARDEX MG is recommended.

COVERAGE

A 20L unit of ARDEX WA 100 is sufficient for approximately 15m² at a continuous 1mm bed thickness. The coverage will vary depending on substrate condition, tile type and application technique.

PACKAGING

ARDEX WA100 is packed in plastic pails – net volume 10L Part A and 10L Part B.

SHELF LIFE

ARDEX WA100 has a shelf life of not less than 24 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity. Keep away from flames and high temperatures. Keep away from food and drink. Reseal partly used containers.

Pay attention to the following:

- Ensure the tile or stone is suitable for vertical and exterior applications, or other intended applications. For sandstone and slate contact ARDEX Technical Services.
- Familiarise yourself and comply with maximum height restrictions when using ARDEX WA 100.
- When fixing white or translucent marble, it is recommended not to spot fix due to the possibility of the adhesive being visible.
- Protect the finished surface from traffic during cold weather until ARDEX WA 100 has fully cured.
- For facades and applications involving heavy tile or stone on the wall, we strongly recommend the use of additional mechanical fixing.
- For fully immersed applications we recommend a minimum cure time of 48 hours at 23°C and 50% relative humidity.

SAFETY DATA

Part A

This product causes skin irritation and may cause an allergic skin reaction. It causes serious eye irritation and suspected of causing cancer and may cause damage to organs through prolonged or repeated exposure. This product is toxic to aquatic life with long lasting effects. This product may form explosive peroxides. Obtain special instructions before use.

Part B

This product is harmful if swallowed. It causes severe skin burns and eye damage. This product may cause an allergic skin irritation and may cause an allergy or asthma symptoms or breathing difficulties if inhaled. This product is suspected of causing genetic defects and may cause damage to organs through prolonged or repeated exposure. Obtain special instructions before use.

Avoid inhaling mist/vapours/spray. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection. Avoid release to the environment. Collect spillage. Take off contaminated clothing and wash it before reuse. Stock locked up. Check with your local Council regarding the disposal of contents, Keep out of the reach of children. In case of contact with the eyes, remove contact lenses if present and easy to do, rinse with water until advised to stop by the Poisons Information centre or a doctor. call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or a doctor if you feel unwell. Additional information is in the Safety Datasheet (SDS at ardexaustralia.com

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TECHNICAL PROPERTIES	
Part A Resin	WHITE PASTE
Part B Hardener	OFF WHITE PASTE
Mixing Ratio	1:1 Part A : Part B by volume

APPLICATION PROPERTIES AT 23°C AND 50% RH	
Adjustment Time	45 mins
Grouting Time	8 hours
Pot Life	45 mins
Open Time	45 mins

MECHANICAL PROPERTIES (ISO 13007) Tensile Adhesion Strength after	
7 Days Dry	≥ 2.0 MPa
Water Immersion	≥ 2.0 MPa
Thermal Shock	≥ 2.0 MPa
Classification	R2 T

GUARANTEE

ARDEX Australia Pty Ltd (“we” or “us”) guarantees this product (“our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 2 Buda Way Kempes Creek NSW 2178; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a “consumer” under the Australian Consumer Law and to that extent you need to be aware that: “Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure”.

DISCLAIMER

The technical details, recommendations and other information contained in this datasheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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This data sheet was issued in February 2025 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.