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 of bleed through

Good chemical resistance

Suitable for fixing white and translucent marble,

Can be used in immersed conditions such as swimming pools

CONFORMS TO ISO 13007

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DESCRIPTION

ARDEX WA 100 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 overheads in interior and exterior applications. It is also ideal for large format ceramic and porcelain tiles.

ARDEX WA 100 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.

TO (SUBSTRATES)

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

FOR FIXING (TILE TYPES)

Fully vitrified and ceramic tiles, porcelain, natural stones (excluding moisture sensitive) and mosaics.

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 strong enough to support the weight of the tiles 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. Prime porous substrates with ARDEX Multiprime.

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 tiling. Steel trowel finished concrete shall be roughened mechanically to remove laitance and provide a good key for tiling.

The surface shall be true and level and pitched to drains where required. The concrete should have adequate surface profile (e.g. CSP 2-3) to provide a mechanical key. Smooth surfaces and/or dense concrete greater than 35MPa must be mechanically prepared prior to tiling.

Cement render / screeds

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

Plasterboard/medium density fibre-cement sheet (Walls)

Tiles can be fixed directly provided these boards are firmly and rigidly fixed in accordance with manufacturer's instructions to adequately support the tile bed. Priming is recommended for fibre-cement sheet but is not usually necessary for plasterboard except when jointing compound is used.

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 WA 100 without mechanically grinding the glaze, following cleaning with sugar soap using an industrial grade scourer. Rinse and allow to dry.

In permanent 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.

Brick and Blockwork

Brick 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, wit the exception of unbonded timber such as laminated flooring strips 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 duct tape. Virgin strip timber floors must be fibre-cement sheeted prior to tiling.

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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 ration 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 trow. Larger quantities can be mixed with an electric drill.

Do not apply at temperatures below 10°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 tiles are free from dust. Tiles 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 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 once 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, ARDEX recommends a minimum of 90% coverage on the back of the tile or stone. Spot fixing on floors is not recommended.

ARDEX WA 100 has an adjustment time of 45 minutes.

Please be aware of site conditions when considering these times and only spread enough adhesive so that the tiles can be fixed while the adhesive is still wet. All tools should be cleaned with water immediately after use.

MOVEMENT JOINTS

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

GROUTING

Grouting can proceed once the ARDEX WA 100 has hardened sufficiently so that tiles will not be dislodged, after approximately 8 hours at 23°C and 50% relative humidity. Allow longer for dense tiles/substrates, humid climates and low temperatures.

The tile joints should be grouted with the appropriate ARDEX grout.

COVERAGE

A 20L unit of ARDEX WA 100 is sufficient for approximately 15m^2 oat a continuous 1mm bed thickness. The coverage will vary depending on substrate condition, tile type and application technique.

PACKAGING

ARDEX WA 100 is packed in plastic pails - net weight 10L Part A and 10L Part B.

SHELF LIFE

ARDEX WA 100 has a shelf life of 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.

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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 the 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 form traffic during cold weather, until the ARDEX WA 100 has fully cured.
- For facades and applications involving heavy tile or stone on the wall, ARDEX recommends the use of additional mechanical fixing.
- For fully immersed applications, ARDEX recommends a minimum cure time of 48 hours at 23°C and 50% relative humidity.
- Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (Personal Protective Equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

SAFETY DATA

Call the Poisons Information Centre on 131 126 or a doctor if you feel unwell.

Part A

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation. May cause cancer. May causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. May form explosive peroxides

Wear protective gloves, protective clothing, eye protection and face protection. Do not breathing mist/vapours/spray. Avoid release to the environment. Wash all exposed external body areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

If exposed or concerned: Get medical advice / attention. IF ON SKIN: Wash with plenty of water and soap. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice / attention. If eye irritation persists: Get medical advice / attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Additional information is in the Safety Data Sheet (SDS) at **ardexaustralia.com** or **ardex.co.nz**

Part B

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause respiratory irritation. May cause cancer. May causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Wear protective gloves, protective clothing, eye protection and face protection. Do not breathing mist/vapours/spray. Avoid release to the environment. Wash all exposed external body areas thoroughly after handling. (In case of inadequate ventilation) wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 minutes from Doctor, INDUCE VOMITING (if conscious). IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice / attention. If experiencing respiratory symptoms: Call a POISON CENTRE/doctor/ physician/first aider. IF ON SKIN: Wash with plenty of water and soap. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. IF SWALLOWED: Call a POISON CENTRE/doctor/ physician/ first aider if you feel unwell.

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TECHNICAL DATA

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	
Open Time	45 mins
Adjustment Time	45 mins
Grouting Time	8 hours
Pot Life	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 Kemps 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 of 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 data sheet 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 May 2026 and is valid for 3 years, in some instances a newer version may be published. Always refer to ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.