



ARDEX X 68

Extended Coverage Flexible Non Slump Wall & Floor Ultralight Tile Adhesive

Light to spread and move around

Environmentally sustainable sand free formula

Ideal for all tile types including fully vitrified, porcelain and mosaics

For internal and external use & suitable for swimming pools and wet areas

Low VOC content - meets Green Building Council of Australia Green Star requirements

CONFORMS TO ISO 13007

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DESCRIPTION

ARDEX X68 is a superior white polymer fortified cement-based wall and floor tile adhesive, that has been specially formulated to offer extended coverage and with low weight for ease of transporting, mixing, and spreading of the tile adhesive.

ARDEX X68 has an extended open time, is non slump and flexible. Mix with water to achieve a mortar suitable for internal and external use in residential and commercial applications, including swimming pools. ARDEX X68 meets the Green Building Council of Australia Green Star requirements for Ceramic Tile Adhesives.

FOR FIXING (TILE TYPES)

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

TO (SUBSTRATES)

- Concrete, renders, screeds
- Fibre-cement sheet, plasterboard on walls
- Compressed fibre-cement sheet on floors
- ARDEX liquid applied undertile waterproofing membranes
- Existing ceramic tiles (internal dry areas)
- CTU (Ceramic Tile Underlay) over particleboard and plywood timber floors

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, contaminants, and other materials should be removed from the surface prior to tiling. Steel trowel finished concrete should be roughened mechanically to remove laitance and provide a good key for tiling. The surface should be true and level. The concrete should have adequate surface profile (e.g., broom finish) to provide a good mechanical key. Smooth surfaces and/or dense concrete greater than 35 MPa must be mechanically roughened prior to tiling.

CEMENT RENDERS / 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.

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 WITH ARDEX Multiprime is recommended for fibre-cement sheet but is not usually necessary for plasterboard except where jointing compound is used.

COMPRESSED FIBRE-CEMENT SHEET (FLOORS) INTERNAL APPLICATIONS

For both internal and external applications, tiling over compressed fibre-cement must be carried out as per sheet manufacturer's recommendations and Australian Standard AS 3958.

EXTERNAL FIBRE CEMENT SHEET

Intended for tiling and also specialised floor sheets (eg. Scyon Secura). Refer to ARDEX technical services for the specific systems recommended for use with these types of boards.

ARDEX LIQUID APPLIED UNDERTILE MEMBRANES

ARDEX undertile waterproofing must be applied according to instructions and thoroughly dry prior to tiling.

EXISTING CERAMIC TILES

(Internal Dry Areas Only)

These include sound, clean, glazed and unglazed tiles. Existing tiles must be firm and stable. Roughen the surface by mechanical means, clean off contamination and dust before tiling. Ensure that at least 80% of the glaze is removed. Alternatively use ARDEX P9 Priming system as per the recommendations. Tiling over existing tiles is not recommended in immersed applications

CERAMIC TILE UNDERLAY (CTU)

Should be fixed as per the CTU manufacturer's instructions. The CTU must be a minimum of 6mm and made specifically for this purpose.

Tiles under 100mm edge length cannot be fixed using this method. Please refer to ARDEX Technical Services for further details.

MIXING

ARDEX X68 powder is added to clean water in a large clean container whilst stirring vigorously with a paddle mixer. Mix thoroughly to give a lump free easily worked mortar of a thick creamy consistency. Mix for at least 2 minutes, allow to stand for 3 minutes, and mix a second time for 2 minutes.

An 11kg bag of ARDEX X68 requires 5.5 litres of water. The consistency of the adhesive can be slightly adjusted to suit site conditions and size, weight and type of tiles and location the tiles are to be fixed. Do not apply at temperatures below 10°C. The pot life of the mixed mortar is approximately 90 minutes at 23°C and 50% relative humidity.

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For improved resilience to movement, and also improved performance in swimming pools, ARDEX X68 can be mixed with ARDEX E90 in the following ratio 2 litres of E90 to 4 litres of cool clean water.

FIXING TECHNIQUE

Before fixing ensure the substrate has been prepared and the tiles are free from dust or contaminants. Tiles should be fixed in accordance with Australian Standard AS 3958.

Substrate surface, type and size of the tiles will determine the selection of the trowel. Refer to AS 3958 Table 5.6.2.2 - trowel size guidance depending on nominal tile size. ARDEX X68 can be applied at a bed thickness greater than 3mm or less than 10mm.

The tiles must be pressed firmly into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tile at right angles to the notch pattern to ensure contact requirement is in accordance with AS 3958 - 21. Tiles with ribbed or keyed back profiles, large format tiles (400mm in either direction), should also be back buttered to ensure complete coverage. Lift a tile from time to time to check that there are no voids beneath the tile. Do not spot fix. Any surplus adhesive must be removed from the surface of the tile and joints, before the adhesive sets.

ARDEX X68 has an open time of 30 minutes and an adjustment time of 20 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 mortar 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 and substrates manufacturer's recommendations.

GROUTING

Grouting can proceed once the tile bed is sufficiently firm, usually 24 hours after fixing 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 11kg bag of ARDEX X68 is sufficient for approximately 10.5m² on walls, using a 6mm notched trowel and 7m² on floors using a 10mm notched trowel.

The coverage will vary depending on substrate condition, tile type and application technique.

SHELF LIFE

ARDEX X68 has a shelf life of 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

PACKAGING

ARDEX X68 is packed in polylined paper sacks – net weight 11kg.

Pay attention to the following:

- Do not use over metal or similar substrates. ARDEX X68 should not be used on floors with a deflection greater than the joist span divided by 500 for tiles less than 600mm and divided by 700 for greater sized tiles. Joist span must comply with AS 1684.
- ARDEX X68 should not be used over substrates subject to shrinkage and other movement e.g. timber, ARDEX provides other systems.
- For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System.
- Dimensional instability in natural stone ranges is often difficult to detect visually and may require thermal and moisture stability testing to ensure that adhesive recommendations can be warranted. Contact your tile supplier for further information or ARDEX technical services for information and testing.

SAFETY DATA

This product causes skin irritation and may cause an allergic skin reaction. It causes serious eye damage and may cause respiratory irritation. This product is suspected of causing genetic defects and may cause damage to organs through prolonged or repeated exposure.

In case of contact with the eyes, remove contact lenses if present and easy to do, rinse with running water until advised to stop by a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid dust/fumes. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully. Keep out of the reach of children. Call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at ardexaustralia.com

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TECHNICAL PROPERTIES	
Colour	WHITE
Mixing Ratio	5.5 litres per 11kg powder
Mixing Ratio with E90	2 litres of E90 & 4 litres of water
Coverage	10.5m ² Walls 7m ² Floors

APPLICATION PROPERTIES AT 23°C AND 50% RH	
Open Time	30 mins
Adjustment Time	20 mins
Grouting Time	24 hours
Pot Life	90 mins
Sagging	None
Underfloor Heating	Yes

MECHANICAL PROPERTIES (ISO 13007) Tensile Adhesion Strength after	
28 Days Dry	≥ 1.0 MPa
Water Immersion	≥ 1.0 MPa
Heat	≥ 1.0 MPa
Freeze Thaw	≥ 1.0 MPa
Extended Open Time	≥ 1.0 MPa
Classification	C2 TE S1

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 Kempas 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 February 2025 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.