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# ARDEX X7

## Wall And Floor Tile Adhesive

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24 hour green bonded screed capable

Classification increases to C2TES1 when ARDEX E 90 is added

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



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## Wall and Floor Tile Adhesive

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### DESCRIPTION

ARDEX X7 is a white cement-based wall and floor tile adhesive. ARDEX X7 has an extended open time and is non slump. Mix with water to achieve a mortar suitable for use on walls and floors in internal areas and externally or commercially when mixed with ARDEX E 90.

Mix with diluted ARDEX E 90 when tiling externally and where movement is anticipated and in commercial applications. ARDEX X7 meets the Green Building Council of Australia Green Star requirements for Ceramic Tile Adhesives.

### FOR FIXING (TILE TYPES)

Ceramic tiles, natural stones (excluding moisture sensitive), mosaics and porcelain.

### TO (SUBSTRATES)

- Concrete, renders, screeds.
- Heated slabs with ARDEX E 90
- ARDEX liquid applied waterproofing membranes over concrete/screed substrates.
- Internal fibre cement sheet and plasterboard.
- Gypsum plaster walls need to be primed with ARDEX Multiprime.
- Concrete swimming pools with ARDEX E 90.

### 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 should 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., broom finish) to provide a mechanical key. Smooth surfaces and/or dense concrete greater than 35MPa 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. Allow at least 7 days to cure prior to tiling.

### PLASTERBOARD/MEDIUM DENSITY FIBRE-CEMENT SHEET (Internal walls only)

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

### ARDEX LIQUID APPLIED UNDERTILE WATERPROOFING MEMBRANES

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

### MIXING

ARDEX X7 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 5 minutes and mix a second time for 2 minutes.

A 20kg bag of ARDEX X7 requires approximately 6 litres of water. When using with ARDEX E 90 admix, first dilute the admix with water. For 20kg of powder, mix 3.6L of ARDEX E 90 with up to 3.6L of water.

The consistency of the adhesive can be adjusted slightly to suit site conditions and size, weight and type of tiles to be fixed. Do not apply at substrate temperatures below 10°C. The pot life of the mixed mortar is approximately 3 hours 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.

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.

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 X7 has an open time of 15 minutes and an adjustment time of 15 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.

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### MOVEMENT JOINTS

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

### 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 20kg bag of ARDEX X7 is sufficient for approximately 10m<sup>2</sup> on walls, using a 6 x 6 x 6mm notched trowel and 7m<sup>2</sup> on floors using a 10 x 10 x 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and application technique.

### PACKAGING

ARDEX X7 is packed in polylined paper sacks – net weight 20kg.

### SHELF LIFE

ARDEX X7 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.

### Pay attention to the following

- ARDEX X7 should not be used over substrates subject to shrinkage and other movement e.g. timber. ARDEX provides other systems.
- For setting of moisture sensitive and dimensionally unstable natural stones, please refer to products in the ARDEX Natural Stone System.
- Dimensional instability in natural stone 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. This product may cause respiratory irritation and causes serious eye damage. This product causes 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 inhaling 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](http://ardexaustralia.com)

### TECHNICAL PROPERTIES

Colour	White
Mixing Ratio	6 litres water per 20kg powder
<b>APPLICATION PROPERTIES AT 23°C AND 50% RH</b>	
Open Time	15 mins
Adjustment Time	15 mins
Grouting Time	24 hours
Pot Life	3 hours
Sagging	None
Underfloor Heating	Yes
Coverage	10m <sup>2</sup> (walls) 7m <sup>2</sup> (floors)
Classification	C1 TE S1

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### 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 NSW 2178; Toll Free: 1800 224 070; Email: [technicalservices@ardexaustralia.com](mailto: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 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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