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# ARDEX X56

## Highly Flexible Tile Adhesive

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Fast setting - Grout after 4 hours

High yield - 15kg cover 12m<sup>2</sup> on walls and 8m<sup>2</sup> on floors

Suitable for early age concrete - Tile over concrete (After 7 days) and screeds / Renders (After 16 hours)

Commitment to



CONFORMS TO ISO 13007

**C1**  
**E**  
**S2**

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### DESCRIPTION

ARDEX X56 is a fast setting, polymer modified highly flexible adhesive. This flexibility makes the adhesive suitable for tiling directly to sheet timber and concrete substrates subject to thermal/shrinkage movement without the addition of additives. ARDEX X56 is ideal for quick turnaround applications owing to its fast drying formulation and compatibility with early age concrete and renders/screeds.

ARDEX X56 is suitable for internal and external, commercial and residential wall and floor applications. It can also be used in shower recess areas with correct falls to drainage.

### TO (SUBSTRATES)

- Concrete, renders, screeds
- Plasterboard, medium density fibre-cement sheets on walls
- Compressed fibre-cement sheet on floors
- ARDEX liquid applied undertile waterproofing membranes
- Existing ceramic tiles and vinyl tiles (Internal Dry areas only)
- Autoclaved aerated concrete (AAC)
- Internal sheet Timber
- Metal Surfaces
- James Hardie® Scyon Secura sheets

### FOR FIXING (TILE TYPES)

Ceramic tiles, natural stone (excluding moisture sensitive stone), fully vitrified tiles, glass mosaics, porcelain.

### SUBSTRATE PREPARATION

The surface being adhered to must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents, contaminants, and other barrier materials, as well as being strong enough to support the weight of the tiles being fixed.

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 7 days 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 mechanical key. Smooth surfaces and/or dense concrete greater than 35 MPa 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. For bonded screeds allow 24 hours to cure prior to tiling. For unbonded screeds 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 with ARDEX Multiprime is recommended for fibre-cement sheet but is not usually necessary for plasterboard except when jointing compound is used.

### COMPRESSED FIBRE-CEMENT SHEET (FLOORS) INTERNAL APPLICATIONS

These sheets must be fixed strictly in accordance with manufacturer's instructions and be deemed suitable for the application by the manufacturer.

Tiling over compressed fibre-cement sheet for external flooring applications should be carried out as per sheet manufacturer's recommendations and Australian Standard AS 3958. Priming with ARDEX Multiprime is recommended for fibre-cement sheet but is not usually necessary 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.

### 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. Prime with ARDEX Multiprime or ARDEX P9.

### EXISTING VINYL TILES

This applies only to solid vinyl flooring which must be well bonded to the substrate, do not tile over thin vinyl flooring that has foam backing. Clean the existing vinyl with a neutral stripping solution to remove any wax and dirt. Rinse with clean water and allow to dry. Lightly sand the surface with a floor sanding machine and vacuum the dust.

### AUTOCLAVED AERATED CONCRETE (AAC)

Remove loose particles from surface and apply two coats of ARDEX Multiprime before tiling.

### INTERNAL SHEET TIMBER

Particleboard and plywood, 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. If timber sheets are contaminated, these 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.

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Priming can be completed with ARDEX Optima or ARDEX P9. Vacuum clean the surface prior to priming with ARDEX Optima, mixed 2 parts powder to 1 part liquid. Add the powder to the liquid whilst stirring with a mechanical mixer. Stir until both parts are homogeneously mixed. Pre-wet a 15mm nap (sponge) roller with the ARDEX Optima slurry before applying a thick coat of slurry over the timber substrate. Allow the slurry coat to dry for at least 40 minutes before tiling over.

For sheeted material e.g. particleboard flooring, tape joints with PVC ducting tape. Strip timber floors must be fibre-cement sheeted prior to tiling.

### METAL SURFACES

Remove rust and mill scale mechanically and oil/grease with methylated spirits. Galvanized metal should be cleaned using high pressure water and scrubbing with a stiff broom. Prime metal surfaces with an appropriate epoxy type metal primer, before the use of P9 or P82.

### MIXING

ARDEX X56 powder is added to clean water in a large clean container whilst stirring vigorously and 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 15kg bag of ARDEX X56 requires 6.75 litres of water.

Do not add additional water.

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

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. 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 X56 has an open time of 30 minutes and an adjustment time of 30 - 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 mortar is still wet.

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.

### GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Grouting and traffic may be allowed after approximately 4 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 15kg bag of ARDEX X56 is sufficient for approximately 12m<sup>2</sup> - 14m<sup>2</sup> on walls, using a 6mm notched trowel and 8m<sup>2</sup> - 10m<sup>2</sup> on floors using a 10mm notched trowel.

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

### PACKAGING

ARDEX X56 is packed in polylined paper sacks – net weight 15kg. Dispose of packaging and recycle where possible.

### SHELF LIFE

ARDEX X56 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

- For external tiling ensure there is no ponding water.
- ARDEX X56 is not suitable for use in or around swimming pools.
- Do not use ARDEX X56 for commercial floors which are subject to heavy loads, ARDEX provides other systems.

# ARDEX X56

## Highly Flexible Tile Adhesive

| TECHNICAL PROPERTIES |                                   |
|----------------------|-----------------------------------|
| Colour               | Light Grey                        |
| Mixing Ratio         | 6.75 litres water per 15kg powder |

| APPLICATION PROPERTIES AT 23°C AND 50% RH |                      |
|---|----------------------|
| Open Time                                 | 30 mins approx.      |
| Adjustment Time                           | 30 - 45 mins approx. |
| Grouting Time                             | 4 hours              |
| Pot Life                                  | 45 mins              |
| Underfloor Heating                        | Yes                  |

| MECHANICAL PROPERTIES (ISO 13007)<br>Tensile Adhesion Strength after |          |
|--|----------|
| 28 Days Dry  | ≥0.5 MPa |
| Water Immersion  | ≥0.5 MPa |
| Heat   | ≥0.5 MPa |
| Freeze Thaw  | ≥0.5 MPa |
| Classification   | C1 E S2  |

### SAFETY DATA

Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe dust/fumes. Wash all exposed external body areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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. Immediately call a doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice / attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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](http://ardexaustralia.com)

This product causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

### 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 Drive Kempers Creek 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".

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