



ARDEX X 52

Flexible Rubber Modified Tile Adhesive

Fast drying - grout after 6 to 8 hours

Suitable for use over green screed

Improved workability

Flexible – achieves S1 classification

Suitable for floor and wall tiling

For internal and external use

Low VOC content - meets Green Building Council
of Australia Green Star IEQ13 requirements



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ARDEX X 52

Flexible Rubber Modified Tile Adhesive

DESCRIPTION

ARDEX X 52 is a rubber modified adhesive for fixing ceramic tiles in internal and external (with satisfactory falls) situations. It can be used over render, plasterboard, fibre-cement sheet and concrete in situations where minimal movement is anticipated.

When mixed with water, a flexible mortar that meets the S1 tile adhesive classification is produced.

ARDEX X 52 is ideal for fixing ceramic, fully vitrified, porcelain, non-moisture sensitive natural stone tiles and mosaics. ARDEX X52 can be used in residential and commercial applications with satisfactory falls.

FOR FIXING (TILE TYPES)

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

TO (SUBSTRATES)

- Concrete, renders, screeds
- ARDEX liquid applied undertile waterproofing membranes
- Medium density fibre-cement sheets on walls, Plasterboard and Compressed fibre-cement sheet on floors

SURFACE 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 should 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 prepared prior to tiling prior to tiling.

CEMENT / SAND RENDER AND 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 16 hours to cure prior to tiling.

PLASTERBOARD / MEDIUM DENSITY FIBRE-CEMENT SHEET on WALLS

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 bed. Ensure the surface is completely clean. Priming with ARDEX Multiprime is recommended over fibre-cement sheets. Priming is not usually necessary for plasterboard except when a jointing compound is used, the compound should then be primed with ARDEX Multiprime.

COMPRESSED FIBRE-CEMENT SHEET on FLOORS

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.

ARDEX LIQUID APPLIED UNDERTILE WATERPROOFING MEMBRANES

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

MIXING

ARDEX X 52 powder is added to clean water in a clean container whilst stirring vigorously and mixed thoroughly to give a lump free easily worked mortar of a thick creamy consistency. Allow to stand for 5 minutes. Restir the mixture thoroughly and the adhesive is ready for use. A 20 kg bag of ARDEX X 52 requires approximately 7.5 litres of water. Do not add additional water.

The consistency of the adhesive can be adjusted to suit site conditions and size, weight and type of tiles to be fixed. Do not apply at temperatures below 5°C. The pot life of the mixed mortar is approximately 1.5 hours

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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 AS 3958. Substrate surface, type and size of the tiles will determine the selection of the trowel. As a general guide use a 6 x 6 x 6mm notched trowel for walls and 10 x 10 x 10mm notched trowel for floor tiling.

ARDEX Abaflex can be applied at a bed thickness greater than 1.5mm or less than 6mm

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 100% coverage on the back of the tile. Tiles with ribbed or keyed back profiles should also be 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 X 52 has an open time of 15 – 20 minutes and an adjustment time of 15 – 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.

MOVEMENTS JOINTS

Movement joints must be in accordance with standard code of practice. For high movement areas, the movement joint interval should be reduced to 4m.

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 6 – 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. When grouting over early age concrete, mix the grout with ARDEX Grout Booster

as per grout packaging instructions.

COVERAGE

20g of ARDEX X 52 is sufficient for approximately 13 - 15m² on walls, using a 6 x 6 x 6mm notched trowel and 8 - 10m² 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 X 52 is packed in multi layer paper bag, net weight 20kg.

SHELF LIFE

12 months when stored in the original unopened packaging, in a dry place between 10°C and 35°C with 50% RH.

TECHNICAL DATA

Colour:	off white
Mixing ratio:	approx. 7.5L water per 20 kg
Application properties at 23°C and 50% RH	
Open time:	15 – 20 minutes
Adjustability time:	15 – 20 minutes
Grouting time:	6 – 8 hours
Pot Life:	1.5 hours
Underfloor heating:	Yes
Mechanical properties (ISO 13007) Tensile Adhesion Strength after	
28 days dry:	> 1.0 MPa
Water immersion:	> 1.0 MPa
Heat Ageing:	> 1.0 MPa
Freeze Thaw:	> 1.0 MPa
Transverse Deformation:	>2.5 mm
Mixing time:	9 minutes
Classification:	C2 S1

Pay attention to the following:

ARDEX X52 is suitable for only minimal movement.

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When setting tiles on substrates where movement is anticipated, we recommend the use of ARDEX X 77 or ARDEX Abaflex. For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System.

ARDEX X 52 is not suitable for use over timber floors.

Do not use ARDEX X 52 in continuous immersion applications e.g. swimming pools, tanks, etc. ARDEX provides other systems.

External tiling and shower recess floors must have adequate falls for drainage.

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 PRECAUTIONS

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. It may cause cancer. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Keep out of the reach of children. For further safety data, consult the Safety Datasheet available online at www.ardex-quicseal.com.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as

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