



ARDEX X 29

Wall and Floor Tile Adhesive

Non-slip, water resistant

Long open time and adjustability time

Suitable for porcelain tiles,
non- moisture sensitive natural stone, terrazzo

Flexible: accommodates thermal and moisture movement

High adhesion strength

For internal and external use

C2 S1 TE classification



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DESCRIPTION

ARDEX X 29 is a cement-based, polymer modified tile adhesive suitable for fixing most types of ceramic tiles including porcelain, mosaics, quarries, natural stone, marble and terrazzo in interior and exterior situations. Suitable for walls and floors.

FOR FIXING (TILE TYPES)

Fully vitrified and ceramic tiles, porcelain, mosaics, quarries, non-moisture sensitive natural stone, marble and terrazzo.

TO (SUBSTRATES)

Concrete, Cement/sand render and screed, gypsum plasterboard, bricks block, cement sheets, tile backer boards.

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 is achieved and allowed to elapse prior to fixing the tiles. Prime porous substrates with ARDEX Multiprime.

NOTE: Showers or similar wet areas should be waterproofed with ARDEX Waterproofing products.

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.

CEMENT / SAND RENDER AND SCREEDS:

New renders and screeds should be finished with a wood float to the required surface regularity. Screeds should be pitched to drains where required. Allow at least 14 days to cure prior to tiling.

PLASTERBOARD / MEDIUM DENSITY FIBRE-CEMENT SHEET:

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. Ensure the surface is completely clean. Priming with ARDEX Multiprime is recommended for fibre-cement sheets. The boards have to be firmly and rigidly fixed and primed with ARDEX Multiprime. 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

Internal Application: 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. Contact ARDEX Technical for advice.

MIXING

ARDEX X 29 powder is added to clean water in a clean container whilst stirring vigorously with electric power drill and mixed thoroughly for 2 minutes until smooth slump-free consistency is produced. Allow to stand for 2 minutes before restirring the mixture thoroughly and the adhesive is ready for use. A 25kg bag of ARDEX X 29 requires 5.5 litres to 6 litres of water/admixture. Avoid excess 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 ARDEX X 29 is approximately 2 hours at 23°C and 50% relative humidity.

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FIXING TECHNIQUE

Before fixing, ensure the substrate has been prepared and the tiles are free from dust. Substrate surface, type and size of the tiles determine the selection of the trowel. As a general guide use a 6 x 6 x 6 mm notched trowel for wall and a 10 x 10 x 10 mm notched trowel for floor tiling. ARDEX X 29 can be applied at a bed thickness greater than 1.5mm or less than 10mm. Immediately after mixing, spread the adhesive paste onto the prepared substrate. Do not spread more than can be tiled within 10 - 15 minutes.

For improved adhesion on surfaces, first apply a skim coat of adhesive using a flat edge trowel. Comb fresh adhesive onto wet skim coat. The tiles must be pressed into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tiles 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 the back of the tile 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 29 has an adjustability 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.

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 4 m.

GROUTING

Grouting with ARDEX Grouts can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Grouting may be allowed after approx. 6-8 hours at 23°C and 50% RH.

COVERAGE

25kg of ARDEX X 29 is sufficient for approximately 12m² on walls, using a 6 x 6 x 6mm notched trowel and 7m² 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 29 is packed in multi layer paper bag, net weight 25kg.

SHELF LIFE

12 months when stored in the original unopened packaging, in a dry place between 10°C and 30°C with 50% RH.

TECHNICAL DATA

Colour:	grey and white
Mixing ratio:	approx. 5.5 - 6 L water per 25 kg
Application properties at 23°C and 50% RH	
Wet Density:	1.60 kg / m ²
Adjustability time:	10 - 15 minutes
Open time	approx. 30 minutes
Grouting time:	approx. 6-8 hours (thin bed) approx. 24 hours (thick bed)
Pot Life:	approx. 2 hours
Mechanical properties (AS 4992 / EN 12004) Tensile Strength after	
28 days dry:	approx. 1.9 N / mm ²
Water immersion:	approx. 1.2 N / mm ²
Deformability:	> 2.5mm
Classification:	C2 S1 TE

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SAFETY PRECAUTIONS

This product is considered non hazardous in normal use. The presence of cement in the product gives an alkaline mortar which may cause some irritation if prolonged contact with skin takes place. Avoid contact with skin and eyes. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye protection and keep the product out of reach for children. Avoid generation of airborne dust during mixing. If swallowed, do not induce vomiting, give a glass of water and contact a doctor.

For further safety data, consult the latest Material Safety Datasheet available online at www.ardex.com.sg.

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 a result thereof.

We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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