



ARDEX X 2 GREY

Cement-Based, Wall and Floor Tile Adhesive

Economical tile adhesive

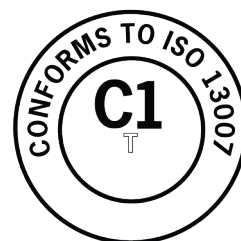
Suitable for work on rigid concrete substrates

For bonding most types of ceramic, porcelain and mosaic tiles

Wall and floor tiling applications

Can be mixed with ARDEX E 90 to increase flexibility - C1TS1

For internal and external use



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ARDEX X 2 GREY

Cement-Based, Wall and Floor Tile Adhesive

DESCRIPTION

ARDEX X 2 Grey is a cement-based, economical, wall and floor tile adhesive for use on rigid internal and external substrates. ARDEX X 2 Grey is a rigid-set, high strength, high quality tile adhesive ideal for bonding most types of ceramic, porcelain and mosaic tiles.

FOR FIXING (TILE TYPES)

Fully vitrified and ceramic tiles, porcelain, mosaic, non-moisture sensitive natural stone, marble, granite tiles and stone.

ARDEX X 2 Grey is not suitable for moisture sensitive tiles, green marble, or translucent marble.

TO (SUBSTRATES)

Rigid concrete substrates.

ARDEX X 2 Grey is suitable for more flexible substrates when mixed with ARDEX E 90. These include ARDEX waterproofing membrane, compressed fibre-cement sheet and plasterboard.

SUBSTRATE PREPARATION

The surface must be clean, firm and free from 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/NZS 3958, is allowed to elapse prior to fixing the tiles. Prime porous substrates with ARDEX Multiprime.

Concrete (including early age concrete)

This includes precast, in-situ and wood floated concrete. As concrete exhibits drying shrinkage, allow to cure for at least 4 weeks (28 days) prior to tiling. Any surface laitance, concrete sealers, curing compounds, and the 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 should be pitched to drains where required. Allow at least 7 days to cure prior to tiling.

Plasterboard/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. Priming is recommended for fibre-cement sheet but is not usually necessary for plasterboard except when jointing compound is used. Mix ARDEX X 2 Grey with ARDEX E 90 when tiling over these substrates. With the addition of ARDEX E 90, ARDEX X 2 Grey attains a classification of C1TS1 - giving it the increased flexibility required for tiling on non-rigid surfaces.

ARDEX Liquid Applied Undertile Waterproofing Membranes

ARDEX Undertile Waterproofing Membranes are considered as flexible substrates, and therefore ARDEX X 2 Grey must be mixed with ARDEX E 90 in these situations. ARDEX Undertile Waterproofing Membranes must be applied according to instructions and thoroughly dried prior to application.

MIXING

Mix ARDEX X 2 Grey with clean water in a large, clean container whilst stirring vigorously. Mix for 2 minutes, then allow the mixture to stand for 3 - 5 minutes before a final 2 minutes of mixing. This ensures that the powder and the water are fully integrated as the mixture becomes a thick, creamy consistency.

A 20kg bag of ARDEX X 2 Grey requires 5L of water. The consistency of the tile adhesive can be slightly adjusted to suit the conditions, location, and also the size, weight, and type of tile that is to be fixed.

When using ARDEX E 90 additive, first dilute the additive 1:1 with water.

The working time and strength development will be retarded at lower temperature and accelerated at higher temperatures. Do not apply ARDEX X 2 Grey at temperatures lower than 10°C.

FIXING TECHNIQUE

Before fixing, ensure the substrate has been properly prepared and the tiles are free from dust. Tiles should be fixed in accordance with AS/NZS 3958. Substrate surface, type and size of tiles will determine the selection of the trowel. As a general guide, use a 6 x 6 x 6mm notch trowel for walls, and a 10 x 10 x 10mm notch trowel for floor tiling. ARDEX X 2 Grey can be applied at a bed thickness of between 3 - 10mm.

The tiles must then 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, large format tiles, or thin tiles 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 2 Grey has an open time of 30 minutes and 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.

MOVEMENT JOINTS

Movement joints must be in accordance with AS/NZS 3958.

GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Grouting may be applied after approximately 24 hours at 23°C and 50% relative humidity, and traffic after another 24 hours. Allow longer for dense tiles/substrates, humid climates and low temperatures. The tile joints should be grouted with the appropriate ARDEX grout.

COVERAGE

20kg of ARDEX X 2 Grey is sufficient for approximately 6.6m² on walls when using a 6 x 6 x 6mm notched trowel, and 4.5m² on floors when using a 10 x 10 x 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and location.

PACKAGING

ARDEX X 2 Grey is packed in paper sacks - net weight 20kg.

SHELF LIFE

ARDEX X 2 Grey 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 X 2 Grey is not suitable for tiling directly over flexible substrates such as timber, plywood, particleboard, MDF and Masonite unless 6mm thick fibre-cement underlay is securely fastened over timber, particleboard etc. and all as per AS/NZS 3958 deflection

requirements.

ARDEX X 2 Grey is not suitable for tiling directly onto metal, plastic or similar impervious, non-absorbent substrates.

Suspended concrete slabs must conform to AS/NZS 3958 for maximum deflection. Any post-tensioned concrete slab must be treated as a flexible substrate and thus not suitable for ARDEX X 2 Grey.

ARDEX X 2 Grey is not suitable for moisture sensitive tiles, green marble, or translucent marble.

ARDEX X 2 Grey is not suitable in continuous immersion situations e.g. swimming pools or spas.

External tiling must not exceed 2.7m in height.

PRECAUTIONS

This product is considered non-hazardous in normal usage. However 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 keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

For further material safety data, consult the latest Safety Data Sheet on www.ardex.co.nz.

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TECHNICAL DATA

Colour: Grey

Mixing Ratio (per 20kg)
Floors and Walls: 5L

Application Properties at 23°C and 50% RH

Open Time: 30 mins

Adjustment Time: 10 mins

Pot Life: 60 mins

Mechanical Properties (ISO 13007)

Tensile Adhesion Strength after;

1 Day Dry: >1 MPa

28 Days Dry: 1-2 MPa

Classification: C1T

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