



ARDEX X 42 Ardeflex

Rubber Modified Wall and Floor Tile Adhesive

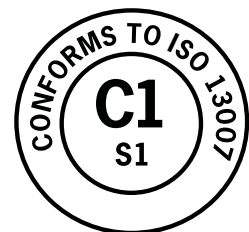
Excellent coverage

Suitable for most tile types including ceramic tiles, porcelains, non-moisture sensitive marble, slate, granite and mosaics

Suitable for walls and floors

Suitable for internal and external use

Low VOC content - meets Green Building Council of Australia Green Star IEQ-13 requirements



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ARDEX X42 Ardeflex

Rubber Modified Wall and Floor Tile Adhesive

DESCRIPTION

ARDEX X42 Ardeflex is a rubber modified wall and floor tile adhesive for fixing ceramic tiles in both interior and covered exterior (with satisfactory falls) locations. ARDEX X42 meets the Green Building Council of Australia Green Star IEQ-13 requirements for Ceramic Tile Adhesives.

FOR FIXING (TILE TYPES)

Most tile types including ceramics, porcelains, non moisture sensitive marble, slate, granite and mosaics.

TO (SUBSTRATES)

Concrete, renders, screeds
Medium density fibre cement sheet (internal walls only)
Plasterboard
ARDEX liquid applied undertile waterproofing membranes

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 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 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. Allow at least 7 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 the manufacturer's instructions to adequately support the tile bed. Priming with ARDEX Multiprime is recommended for fibre-cement sheeting. Priming is not usually necessary for plasterboard except when jointing compound is used, the compound should then be primed with ARDEX Multiprime.

ARDEX Liquid Applied Undertile Waterproofing Membranes

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

MIXING

ARDEX X42 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 2 minutes, and mix a second time for 2 minutes. A 20kg bag of ARDEX X42 requires approximately 6.5 litres of 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 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. As a general guide

use a 6 x 6 x 6mm notch trowel for walls and 10 x 10 x 10mm notch trowel for floor tiling. ARDEX X42 can be applied at a bed thickness greater than 2mm or less than 6mm. Final bed thickness should be no less than 3mm on floors and no less than 2mm for walls.

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. Any surplus adhesive must be removed from the surface of the tile and joints, before the adhesive sets. Do not spot fix.

ARDEX X42 has an open time of 25 minutes and an adjustment time of 30 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 Australian Standard AS 3958.

GROUTING

Grouting and traffic may be allowed after approximately 24 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

20kg of ARDEX X42 is sufficient for approximately 11m² 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 X42 is packed in polylined paper sacks – net weight 20kg.

SHELF LIFE

ARDEX X42 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 X42 is only suitable for minimal movement. ARDEX provides other systems for setting tiles where movement is anticipated.
- Do not use ARDEX X42 in continuous immersion applications e.g. swimming pools, tanks, etc. ARDEX provides other systems.
- For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System.
- ARDEX X42 is not suitable for use directly over timber floors or fibre cement sheeted timber floors.
- Covered external tiling and shower recess floors must have adequate falls for drainage.
- Do not use over metal substrates.

Dimensional instability in natural stone ranges can often be 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

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 the reach of 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 material safety data, consult the latest Safety Data Sheet.

TECHNICAL DATA

Colour: Off White Powder
Mixing Ratio: Approximately 6.5 litres water per 20kg powder

Application Properties at 23°C and 50% RH

Open Time: 25 minutes
Adjustment Time: 30 minutes
Grouting Time: 24 hours
Pot life: 3 hours
Sagging: None

Mechanical Properties (ISO 13007)

Tensile Adhesion Strength after 28 Days Dry: ≥0.5 MPa
Water Immersion: ≥0.5 MPa
Heat Ageing: ≥0.5 MPa
Freeze Thaw: ≥0.5 MPa
Mixing Time: 6 minutes
Coverage: 11m² (walls)
7m² (floors)

Classification: C1 S1

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