



forticrete

Glue

Rubber Modified Tile Adhesive

- Flexible
- For wall and floor tiling
- Internal and external
- Excellent coverage

DESCRIPTION

Forticrete Glue is a rubber-modified wall and floor adhesive for fixing ceramic tiles in internal and external situations (with satisfactory falls).

Forticrete Glue meets the Green Building Council of Australia Green Star IEQ-13 requirements for Ceramic Tile Adhesives when tested in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC) in Various Materials as referenced by South Coast Air Quality Management Division (SCAQMD) Rule 1168.

FOR FIXING (TILE TYPES)

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

TO (SUBSTRATES)

For situations where minimal movement is anticipated.

Walls: Cement render, concrete, fibre-cement sheets, plasterboard and existing ceramic tiles (internal only).

Floors: Concrete, compressed fibre-cement sheets, Ceramic Tile Underlay (CTU) and existing ceramic tiles (internal only).

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 roughened 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/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 for fibre-cement sheeting. Priming is not usually necessary for plasterboard except when a jointing compound is used, the compound should then be primed with ARDEX Multiprime.

Ceramic Tile Underlay (CTU)

Should be fixed as per the CTU manufacturer's instructions. The CTU must be a minimum of 6mm and made specifically for this purpose. Tiles under 100mm edge length cannot be fixed using this method. Please refer to ARDEX Technical Services for further details.

Existing Ceramic Tiles (Internal 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.

MIXING

Forticrete Glue 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 20kg bag of Forticrete Glue requires approximately 8 litres of water.

The consistency of the adhesive can be adjusted slightly to suit site conditions and size, weight and type of tiles to be fixed. Do not apply at substrate temperatures below 10°C. The pot life of the mixed mortar is approximately 2 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 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 to achieve a continuous 1.5mm bed and a minimum of 10 x 10 x 10mm notched trowel for floor tiling to achieve a 2.5mm bed. Forticrete Glue cannot be applied at a bed thickness greater than 6mm or less than 1.5mm.

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.

Forticrete Glue has an open time of 20 minutes and an adjustment time of 25 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 can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. 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 Forticrete Glue is sufficient for approximately 13-15m² on walls and 8-10m² on floors.

PACKAGING

Forticrete Glue is packed in polylined paper sacks – net weight 20kg.

SHELF LIFE

Forticrete Glue has a shelf life of not less than 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:

Forticrete Glue is only suitable for minimal movement. When setting tiles on substrates where movement is anticipated, we recommend the use of ARDEX X56, ARDEX X77, ARDEX Abaflex or ARDEX X78 where appropriate. For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System. Forticrete Glue is not suitable for use directly over timber floors or fibre cement sheeted non engineered timber floors. Forticrete Glue should not be used on floors with a deflection greater than the joist span divided by 500. Joist span must comply with AS 1684. Do not use Forticrete Glue in continuous immersion applications e.g. swimming pools, tanks, etc. ARDEX provides other systems. Covered external tiling and shower recess floors must have adequate falls for drainage.

SAFETY PRECAUTIONS

This product is considered non hazardous in normal usage. 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 the reach of children. If swallowed do not induce vomiting, give a glass of water and contact a doctor. Avoid generation of airborne dust during mixing. For further material safety data, consult the latest Material Safety Data Sheet.

TECHNICAL DATA

Colour: Off White Powder
Mixing Ratio: Approx 8L water per 20kg powder

Application Properties at 23°C and 50% RH

Open Time: 20 minutes
Adjustment Time: 25 minutes
Grouting Time: 24 hours
Pot Life: 2.5 hours
Underfloor Heating: Yes (Aged concrete)

Mechanical Properties (AS 4992)

Tensile Adhesion Strength after:

28 days dry: 0.5-1.0 MPa
Water immersion: 0.5-1.0 MPa
Heat: 0.5-1.0 MPa
Freeze Thaw: 0.5-1.0 MPa

QUALITY PRODUCT

Forticrete Glue is manufactured and tested to procedures, which are maintained in accordance with Quality Standard ISO 9001. Material Safety Data Sheets are available upon request.

PRODUCT GUARANTEE

Ardex Australia Pty Ltd (“we” or “us”) guarantees this product (also referred to as “our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of application of the product if such application occurs within this product’s specified shelf life. 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 the cost of such replacement or repair, 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 our published instructions or any act or circumstance beyond our control, including shade variations and efflorescence and faulty workmanship on the part of any installer or applicator of the product. If you wish to make a claim under this guarantee you must notify us (address: 7/20 Powers Road Seven Hills NSW 2147; phone: 1800224070; email: techinfo@ardexaustralia.com), identify the product and provide evidence of your purchase and the subsequent application 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 and to undertake any inspections and tests necessary to establish your rights under this guarantee. 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 of 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”.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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