



ARDEX X 32

Natural Stone Adhesive

Ideal for large format tiles and heavy stone applications

Formulated for uncalibrated or moisture sensitive natural stone tiles -
reduced risk of water staining

Single application up to 30mm thickness, ready for foot traffic and
grouting within 3 hours

CONFORMS TO ISO 13007

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ARDEX X 32

Natural Stone Adhesive

DESCRIPTION

ARDEX X 32 Natural Stone Adhesive is a rapid hardening and drying, cement-based adhesive for fixing natural stone floor and wall tiles including moisture sensitive natural stone tiles and uncalibrated natural stone floor tiles. It can be used on concrete slabs and ceramic tiles including porcelain tiles in internal and external applications and as a skimming mortar coat to repair uneven surfaces prior to tiling.

ARDEX X 32 is suitable for use in applications where:

- The adhesive bed has to dry quickly to reduce the risk of moisture staining of the stone.
- Tiles fixed with ARDEX X 32 can be grouted and subjected to foot traffic 3 hours after fixing at 23°C and 50% relative humidity, even at maximum thickness of 30mm.
- Large format tile installations that require effort to achieve wet bed transfer adequate to AS 3958 or dense stone which can extend adhesive drying times.

TO (SUBSTRATES)

- Concrete, renders, screeds
- Medium density fibre-cement sheet, plasterboard
- ARDEX liquid applied undertile waterproofing membranes
- Existing ceramic tiles (internal dry areas)
- Autoclaved aerated concrete (AAC)
- Compressed fibre-cement sheet on floors (with ARDEX E 90)
- Heated floors

FOR FIXING (TILE TYPES)

Fully vitrified and ceramic tiles, porcelain, concrete stone tiles e.g. terrazzo, natural stones*, glass and porcelain mosaics.

*ARDEX X 32 can be used for fixing low to medium dimensionally sensitive stone. For details please refer to Technical Bulletin TB010 - Fixing of Moisture Sensitive Stone / Marble,

ARDEX X 32 is suitable for use with translucent tiles, glass, mosaics, limestone, travertine, marble and other natural stone.

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 shall be roughened mechanically to remove laitance and provide a good key for tiling.

The surface shall be true and level and pitched to drains where required. The concrete should have adequate surface profile (e.g. CSP 2-3) 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.

Plasterboard/medium density fibre-cement sheet (Walls)

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.

ARDEX liquid applied undertile waterproofing membranes

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

Existing ceramic tiles (Internal dry areas 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. Prime with ARDEX Multiprime or ARDEX P 9.

MIXING

ARDEX X 32 powder is added to clean water in a clean container. The most efficient method of mixing is by using a mixing paddle and a heavy duty electric drill (650rpm), and mixed thoroughly to give a lump free easily worked mortar of a thick creamy consistency. Mix for at least 2 minutes allow to stand for 5 minutes, and mix a second time for 2 minutes.

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ARDEX X 32 can be mixed to suit the application.

Walls: Mix 20kg with 6.4 litres of water

Floors: Mix 20kg with 7.2 litres of water

Note: Do not add additional water and ensure that you have mixed for at least 2 minutes.

When using ARDEX E 90 admix, first dilute the admix 1:2 with 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. Refer to AS 3958 for the trowel size guidance depending on nominal tile size.

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 32 has an open time of 30 minutes and an adjustment time of 20 minutes. ARDEX X 32 can be applied at a bed thickness greater than 3mm or less than 30mm.

The area covered with ARDEX X 32 should be limited so that tiles can be fixed within the open time. If the mortar is applied immediately after mixing, the open time is approximately 20 minutes but this will be greatly reduced if the mixed mortar is left longer before applying.

On particularly rough or uneven floor or wall surfaces it is advisable to pre-level the surface with ARDEX X 32 mortar and once the initial layer has hardened, (approximately 3 hours after application) proceed with the normal fixing technique.

Holes and depressions can be pre-filled and substrates levelled provided that the substrate is sufficiently strong and the total thickness of adhesive and pre-leveelling mortar does not exceed 30mm.

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 3 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

A 20kg bag of ARDEX X 32 will cover approximately 5.5m² with a solid 3mm adhesive bed. The coverage will vary depending on substrate condition, tile type and application technique.

PACKAGING

ARDEX X 32 is packed in polylined paper sacks – net weight 20kg. Dispose of packaging and recycle where possible.

SHELF LIFE

ARDEX X 32 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

- Do not use ARDEX X 32 in continuous immersion applications e.g. swimming pools, tanks, etc. ARDEX provides other systems.
- 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.

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SAFETY DATA

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Do not breathe dust/fumes. Wear protective gloves, protective clothing, eye protection and face protection. Wash all exposed external body areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice / attention. Immediately call a doctor. IF ON SKIN: Wash with plenty of water and soap.

Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Additional information is in the Safety Data Sheet (SDS) at ardexaustralia.com

TECHNICAL DATA

TECHNICAL PROPERTIES	
Colour	Off White
Mixing Ratio	6.4 litres Walls 7.2 litres Floors water per 20kg powder

APPLICATION PROPERTIES AT 23°C AND 50% RH	
Open Time	30 mins
Adjustment Time	20 mins
Grouting Time	3 hours
Pot Life	60 mins
Sagging	None
Underfloor Heating	Yes

MECHANICAL PROPERTIES (ISO 13007) Tensile Adhesion Strength after	
28 Days Dry	≥1.0 MPa
Water Immersion	≥1.0 MPa
Heat	≥1.0 MPa
Freeze Thaw	≥1.0 MPa
Classification	C2 TE S1

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. 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 compensation, 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 published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 2 Buda Way Kempers Creek NSW 2178; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase 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. 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 or 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 Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. 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 affect 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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