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# ARDEX X 3

## Thin Set Mortar

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For setting quarry, moisture-insensitive natural stone, porcelain and most types of ceramic and mosaic tiles

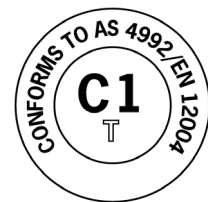
Water and heat resistant

Easy to mix and apply

Extended pot life

For internal & external floors and walls

Drastically reduces efflorescence



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### DESCRIPTION

Polymer-modified thin set used for setting quarry tile, natural stone tiles and slabs (with the exception of moisture-sensitive stones) and ceramic on interior and exterior cementitious surfaces.

Also for setting porcelain tile and glass mosaics on interior applications over absorbent concreted surfaces only.

Suitable for use over concrete floors with in-floor heating systems.

### SURFACE PREPARATION

ARDEX X 3 adheres to both dry and damp substrates that are structurally sound, solid and free from any contaminant that can act as a bond breaker. The plane of wall surfaces must be plumb and true. Floor surfaces must have minimal variation in the plane or slope.

Should pre-leveling or subfloor repair be required over concrete and masonry substrates, use ARDEX A 46, as appropriate.

Expansion joints must be provided over existing moving joints and cracks, and where substrate materials change composition or direction.

Highly absorbent substrates such as plaster must be primed with ARDEX P 51, primer diluted 1:3 with water (interior applications in dry areas only).

Existing tiles, metal, glass and other non-porous surfaces must be primed with ARDEX P 82 (interior applications in dry areas only). For exterior applications or wet areas, non-porous substrates must be coated with suitable ARDEX waterproofing coatings.

### MIXING

For one 25kg bag of ARDEX X 3, use 5.7L to 6.2L of clean water. Put water in the mixing container first, and then add the ARDEX X 3 and mix with mechanical mixer, stir the mixture till no lumps. Prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

### FIXING TECHNIQUE

After mixing, apply the mortar to the substrate with the flat side of a trowel to obtain a solid mechanical bond. Apply to an area no greater than that which can be covered with tile while the mortar remains plastic (approx. 10 minutes open time, depending on substrate

and job site conditions).

Comb the mortar with a notched trowel of sufficient depth to ensure that the tiles are covered uniformly over their entire surface. The type and size of the tiles will dictate the size of the notched trowel to be used. The position of the tile may be corrected for approximately 15 minutes after installation.

The pot life of ARDEX X 3 is 3 hours at 21°C. If surface skinning occurs within this time, remix the mortar before using. Tile must not be applied to skinned-over mortar.

Rough or uneven substrates may first be treated with a full scratch coat of ARDEX X 3 up to 6mm thick. Installation of tiles may begin after the scratch coat has hardened overnight.

### MOVEMENTS JOINTS

Movement joints must be in accordance with standard code of practice.

### GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Walls can be grouted after 8 hours; floors after 24 hours. ARDEX recommends the use of ARDEX F4 or ARDEX FG 8 grout.

### COVERAGE

25kg of ARDEX X 3 is sufficient for approx. 14.5m<sup>2</sup>, using a 3 x 3 x 3mm notched trowel and approx. 7.5m<sup>2</sup> using a 6 x 6 x 6mm notched trowel.

The coverage will vary depending on substrate condition, tile type and application technique.

### PACKAGING

ARDEX X 3 is packed in polylined paper bag, net weight 25kg.

### SHELF LIFE

ARDEX X 3 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.

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### TECHNICAL DATA

Colour:	white and grey
Mixing ratio:	approx. 5.7 - 6.2 L water per 25 kg
<b>Application properties at 23°C and 50% RH</b>	
Open time:	approx. 20 minutes
Adjustability time:	approx. 15 minutes
Grouting time:	approx. 8 hours for walls approx. 24 hours for floors
Pot Life:	approx. 3 hours
<b>Mechanical properties (AS 4992 / EN 12004) Tensile Adhesion Strength after</b>	
28 days dry:	≥ 1.2N/ mm <sup>2</sup>
Water Immersion:	≥ 1.2N/ mm <sup>2</sup>

### SAFETY PRECAUTIONS

ARDEX X 3 contains Portland cement and sand aggregate. 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. 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 Safety Data Sheet which is available upon request and online at [www.ardex-quickseal.com](http://www.ardex-quickseal.com)

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FEB 2023 T