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# ARDEX S 16

Rapid Hardening and Drying Tile and Natural Stone Adhesive

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Reduces the risk of water staining in moisture sensitive natural stones

Can be trafficked and grouted 2-3 hours after fixing

Suitable for fixing porcelain and fully vitrified tiles

For internal, dry or intermittently damp locations

For use on walls and floors

Rapid dry Formula

**RAPIDRY**



**FORMULA**

What is the Rapidry Formula?

Binds the mix water within the adhesive or grout, virtually eliminating the risk of water staining and guaranteeing the best possible finish to all natural stone tiles. Speeds drying and hardening times irrespective of application thickness



本企业通过ISO9001:2000质量认证体系



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# ARDEX S 16

## Rapid Hardening and Drying Tile and Natural Stone Adhesive

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### DESCRIPTION

ARDEX S 16 is an off-white powder based on special cements, high quality synthetic resins and fillers which is mixed with water to produce a slump free, easily applied mortar with a working time of approximately 30 minutes. Tiles and mosaics fixed with ARDEX S 16 can be grouted and subjected to light loads only 2 hours after fixing at normal temperature. It is particularly suitable for use in situations where the adhesive bed has to dry quickly or the tiling has to be grouted and put into use shortly after fixing.

### AREAS OF APPLICATIONS

ARDEX S 16 is a special rapid drying, cement-based adhesive for fixing ceramic and natural stone floor and wall tiles, mosaics in internal situations.

The mortar adheres strongly to most building materials such as concrete, cement/sand render and screeds, brickwork, etc. in some cases surface preparation, such as priming may be required prior to fixing.

### SUBSTRATE PREPARATION

In general, 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 the substrates drying time sufficient.

ARDEX S 16 can be applied to dry or moist surface, E.G. cement/ sand, concrete etc., but moisture sensitive materials must be dry and remain dry after fixing.

When fixing to very smooth, dense and impervious surfaces, such as existing ceramic tiles (glazed or unglazed), glazed bricks, terrazzo etc. ARDEX E 72 additive should be incorporated in the ARDEX S 16, or to use appropriate ARDEX primer on the substrate.

### MIXING

ARDEX S 16 powder is added to clean water in a clean container whilst stirring and mixed thoroughly to give a slump free, easily worked mortar. The mix proportions by volume are: - Approximately 3 parts ARDEX S 16 powder to 1 part water. A 25kg bag requires approximately 6.75 liters water.

The mortar is immediately ready for use and has a working time of approximately 30 minutes at a temperature of 23°C

**NOTE:** Do not mix more than can be used within this time. The working time and strength development will be retarded at lower and accelerated at higher temperatures. Do not apply at temperatures below 5°C.

### FIXING TECHNIQUE

For fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate, into which the tiles are firmly bedded whilst the mortar is moist and soft.

Use a 3mm x 3mm notch trowel for mosaics and thin flat backed wall tiling, a 6mm x 6mm notch trowel for general wall tiling and 10mm x 10mm notch trowel for floor tiling. Floor tiles and tiles with keyed back profiles must also be buttered to ensure solid bedding. The area covered with ARDEX S 16 mortar 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 10 minutes but this time will be greatly reduced if the mixed mortar is left longer before applying. On particularly rough or uneven surfaces it is advisable to pre-level the surface with ARDEX S 16 mortar and, once this initial layer has hardened, (approximately 1 hour after application) proceed with the normal fixing technique.

### GROUTING

Ceramic tiles and mosaics fixed in ARDEX S16 may be grouted as soon as the tile bed is sufficiently firm, usually 2 hours after fixing at 23°C. The tile joints should be grouted with the appropriate ARDEX grout mortar.

Where chemical-resistant jointing is necessary, or where an impervious, easily cleaned jointing is required, we recommend ARDEX epoxy grout compound.

### COVERAGE

A 25kg bag of ARDEX S16 will yield approximately 18.1 litres of mortar, using approximately 1.38 kg of powder per m<sup>2</sup> per mm thickness of adhesive bed. The actual coverage achieved in practice will depend on the back profile of the tile and notched trowel and technique used to bed the tiles e.g. a 25kg bag of ARDEX S 16 will cover approximately 8.6m<sup>2</sup> when using a 6mm x 6mm square toothed and notched trowel held at an angle of 45 degrees. When using a 10mm x 10mm square toothed and notched trowel held at an angle of 45 degrees, it will then cover 5.1 m<sup>2</sup>.

### PACKAGING

ARDEX S 16 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

### STORAGE AND SHELF LIFE

ARDEX S 16 must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 6 months from the date shown on the packaging.

### TECHNICAL DATA

Bulk density of powder	
approximately	1.4kg/litre
Weight of fresh mortar	
approximately	1.75kg/litre

**Meets requirement of JC/T 547-2005 C2FT**

### HEALTH AND SAFETY

ARDEX S 16 is considered non-hazardous in normal usage, however it contains Portland cement & quartz sand and reacts alkaline which may cause some skin irritation after prolonged contact. Avoid generation and breathing of dust. Avoid contact with eyes or skin. Wear suitable protective dust mask, gloves and safety glasses. In case of contact with eyes, rinse for several minutes under running water. In case of contact with skin, rinse with running water. If dust is inhaled, remove to fresh air, ensure breathing passages are clear and rinse mouth with water. In the case of adverse symptoms, seek medical advice. Physiologically and ecologically safe when in the cured state. For further information, please consult the Material Safety Data Sheet (MSDS).

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The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations.