



# ARDEX S 28 Neu

## Microtec Large Format and Stone Tile Adhesive

ARDURAPID Technology for installing Natural Stones and very large format tiles

Rapid drying – can be trafficked and grouted 3 hours after fixing

Reduced risk of water staining, warping and curling

Suitable for fixing porcelain and fully vitrified tiles

No lipping of floor tiles – especially polished porcelain

ARDEX S28 Neu is ideal for fixing translucent marble, glass mosaics and other natural stone tiles

For internal use on walls and floors

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



### What is MICROTEC TECHNOLOGY?

A unique binding matrix made up of exclusive ARDEX materials, special cements and polymers combined with high performance fibres which improves adhesive strength, reduces the effect of shear strain and stress on the tiling system.



### What is ARDURAPID?

ARDURAPID technology chemically utilises the mix water in building a reinforced crystalline structure guaranteeing a shrinkage free high strength system and virtually eliminating the risk of water staining.

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### DESCRIPTION

ARDEX S 28 Neu is a Microtec fibre reinforced rapid hardening and drying Ardurapid technology cement based adhesive.

Ideal for:

Situations where the adhesive bed has to dry quickly or the tiling has to be grouted and put into use shortly after fixing.

Where residual moisture could cause efflorescence and water marks on certain natural stone tiles.

Very large tile installations that require effort to achieve wet bed transfer adequately to AS 3958.

Very large or dense tiles that can impact adhesive drying times.

ARDEX S 28 Neu is suited for use in internal areas that are not permanently wet.

Do not use in swimming pools or external areas.

### FOR FIXING (TILE TYPES)

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

\*ARDEX S 28 Neu 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 S 28 Neu for translucent tiles, glass, mosaics, limestone, travertine, marble and other natural stone.

### TO (SUBSTRATES)

Concrete, renders, screeds

Medium density fibre-cement sheets on walls and plasterboard

Existing ceramic tiles (dry internal areas only)

Autoclaved aerated concrete (AAC)

Compressed fibre-cement sheet on floors (with ARDEX E90)

Heated Floors

### 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. 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 should be pitched to drains where required. Allow at least 7 days to cure prior to tiling.

### Plasterboard/Fibre-cement Sheet

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. Mix ARDEX S 28 Neu with ARDEX E 90 when tiling over these substrates.

### Existing Ceramic Tiles

These include sound, clean, glazed and unglazed tiles. If the area to be tiled will not be in contact with water, tiles can be directly fixed using ARDEX S 28 Neu after skim coat without mechanically grinding the glaze. In all other situations the tiles must be mechanically roughened to remove 80% of the glaze. All dust and contamination should be removed before tiling.

### MIXING

ARDEX S 28 Neu can be mixed to suit the application.

Floors: Mix 20kg powder with 6 - 7.2 litres water.

Walls: Mix 20kg powder with 5.5 - 6.5 litres water.

When using ARDEX E 90 admix, first dilute the admix 1:2 with water.

The working time and strength development will be retarded at lower temperatures and accelerated at high. Do not apply at temperatures below 5°C.

### 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 S 28 Neu can be applied at a bed thickness of between 2 - 10mm. 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, large format or thin tiles 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 S 28 Neu has an open time of 30 minutes and adjustment time of 20 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 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

20kg of ARDEX S 28 Neu is sufficient for approximately 10.5m<sup>2</sup> on walls, using a 6 x 6 x 6mm notched trowel and 6.8m<sup>2</sup> 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 S 28 Neu is packed in polylined paper sacks – net weight 20kg.

### SHELF LIFE

ARDEX S 28 Neu 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.

### SAFETY DATA

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. May cause damage to organs. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at [www.ardexaustralia.com](http://www.ardexaustralia.com)

### TECHNICAL DATA

**Colour:** White

### Mixing ratio (per 20kg):

**Floors:** 6 - 7.2 litres  
**Walls:** 5.5 - 6.5 litres

### Application Properties at 23°C and 50% RH

**Open time:** 30 mins  
**Adjustment Time:** 20 mins  
**Grouting Time:** 3 hrs

### Mechanical Properties (ISO 13007)

**Tensile Adhesion Strength after 1 day dry:** >1 MPa  
**28 days dry:** >1 MPa  
**Water Immersion:** >1 MPa  
**Heat Ageing:** >1 MPa  
**Freeze Thaw:** >1 MPa  
**Classification:** C2FTES1

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### 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, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: [technicalservices@ardexaustralia.com](mailto: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 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

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