



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 – level finish 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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ARDEX S28 Neu

Microtec Large Format and Stone Tile Adhesive

DESCRIPTION

ARDEX S28 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 S28 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 S28 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 S28 Neu (white) 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.

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 S28 Neu with ARDEX E90 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 S28 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 S28 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 E90 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 S28 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 S28 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 S28 Neu is sufficient for approximately 10.5m² on walls, using a 6 x 6 x

6mm notched trowel and 6.8m² 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 S28 Neu is packed in polylined paper sacks – net weight 20kg.

SHELF LIFE

ARDEX S28 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.

PRECAUTIONS

This product is considered non-hazardous in normal usage. However 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 keep the product out of the reach of children. Avoid generation of airborne dust during mixing. For further material safety data, consult the latest Material Safety Data Sheet.

TECHNICAL DATA

Colour: S28 Neu White - 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

Mechanical Properties (ISO 13007)

Tensile Adhesion Strength after

1 day dry: >1 MPA

28 days dry: 1-2 MPA

Classification: C2FTES1

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