



ARDEX Abacrete

Bonding Agent for Use with Sand/Cement Screeds and Renders

Liquid polymer additive that greatly improves shear and tensile bond strength

Improves water resistance

Accommodates thermal movement

Non-toxic and non-flammable formula

ARDEX Australia Pty Ltd
20 Powers Road
Seven Hills NSW 2147
Tel: (02) 9851 9199
Fax: (02) 9674 5621
Email: techinfo@ardexaustralia.com
Internet: www.ardex.com

ARDEX New Zealand Ltd
32 Lane St, Woolston
Christchurch, New Zealand
Tel: (03) 384 3029
Fax: (03) 384 9779
Email: techinfo@ardexaustralia.com
Internet: www.ardex.com

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Bonding Agent for Use with Sand/Cement Screeds and Renders

DESCRIPTION

ARDEX Abacrete is a bonding agent designed to improve shear and tensile bond strength of sand/cement screeds and renders. ARDEX Abacrete mixed with screeds and renders can be used for internal or external, commercial and residential applications on both the floor and wall.

TO (SUBSTRATES)

Concrete, renders, screeds
Brickwork, blockwork
Waterproofing membranes

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 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.

Note: If the substrate is subject to rising damp, treat with ARDEX WPM 300, then use a slurry coat of ARDEX Abacrete/cement before applying a screed or render.

For specific instruction refer to the relevant ARDEX product packaging.

MIXING

The mixing ratio of ARDEX Abacrete is dependent on the application and product.

For use as a slurry coat, mix 3:2 cement: ARDEX Abacrete by volume.

When using with a render or screed, prepare a 1:3 ARDEX Abacrete to water dilution by volume.

For renders mix 27 litres of diluted ARDEX Abacrete with 40kg of Portland cement and 120kg of clean sand.

For screeds mix 21 litres of diluted ARDEX Abacrete with 40kg of Portland cement and 120kg of clean sand.

FIXING TECHNIQUE

Render Coat

First apply a slurry coat using a roller, brush or a flat trowel, to a maximum thickness of 2mm. While the slurry coat is still wet, apply the render over it. Apply the ARDEX Abacrete mortar with a wood float trowel. Ensure firm pressure on the trowel to work the render into good contact with the surface. Recommended thickness of the render coat is 10mm. Renders are applied in the normal manner up to 13mm thick and allowed to take their initial set. Renders in excess of 13mm should be applied in a two coat operation as per AS 3958.

Screed

First apply the slurry coat using a roller,

brush or a flat trowel, to a maximum thickness of 2mm. While the slurry coat is still wet, apply the screed mix. Use a straight edge trowel or timber batten to level the screed. Recommended minimum thickness of screed is 15mm. Achieve falls to waste in shower recesses to a minimum 1:60, internal wet areas (e.g. bathrooms) to a minimum of 1:80 and external areas to a minimum of 1:100. Screeds should be left with a wood float finish to create a key for tiling/waterproofing. For a thickness greater than 40mm, a reinforcing mesh is required. When reinforcing the screed with galvanised mesh, apply the first layer of screed, lay the mesh and apply the second layer of the screed. Do not lay the mesh directly onto the substrate.

All tools should be cleaned with water immediately after use.

DRYING TIME

Allow approximately 24 hours for the ARDEX Abacrete mortar to dry at 23°C and 50% relative humidity.

Substrate and climatic conditions will affect drying times, allow longer for lower temperatures or high relative humidity. Allow at least 7 days for cement renders and screeds to dry prior to tiling.

COVERAGE

20L of ARDEX Abacrete is sufficient for approximately 100m² as a slurry coat, 9m² as a screed at a bed thickness of 15mm, 3m² as a self supporting screed at 40mm and 10m² as a render at a bed thickness of 10mm.

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

PACKAGING

ARDEX Abacrete is packed in plastic pails – net volume 20L.

SHELF LIFE

ARDEX Abacrete 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. Protect from frost.

Pay attention to the following:

ARDEX Abacrete should be used undiluted for heated concrete slabs.

In exterior conditions, it is essential to provide protection from all extremes of climate during the entire fixing and grouting operation, and for a substantial period afterwards.

SAFETY PRECAUTIONS

ARDEX Abacrete is non-toxic. 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 to rinse mouth then as much water as the patient can drink and seek medical advice.

For further material safety data, consult the latest Material Safety Data Sheet.

TECHNICAL DATA

Colour:	White liquid
Specific Gravity:	Approx 1.01g/ml
pH:	9-11
Underfloor Heating:	Yes

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

Slurry Coat

Mixing Ratio:

10L undiluted ARDEX Abacrete
/20kg cement

Compressive Strength

after 28 days dry: Approx 25 MPa

Flexural Strength

after 7 days dry: Approx 7 MPa

Render

Mixing Ratio:

27L diluted ARDEX Abacrete
/40kg cement/120kg sand

Compressive Strength

after 28 days dry: Approx 10 MPa

Flexural Strength

after 28 days dry: Approx 5 MPa

Screed

Mixing Ratio:

21L diluted ARDEX Abacrete
/40kg cement/120kg sand

Compressive Strength

after 28 days dry: Approx 15 MPa

Flexural Strength

after 28 days dry: Approx 5 MPa

Pot Life:

1 hour

Note: These are typical values based on Portland cement and dry washed sand.

ARDEX Australia Pty Ltd

NSW	Ph (02) 9851 9100	Fax (02) 9838 7970
QLD	Ph (07) 3817 6000	Fax (07) 3881 3188
VIC/TAS	Ph (03) 9308 9255	Fax (03) 9308 9332
SA	Ph (08) 8268 2511	Fax (08) 8345 3207
WA	Ph (08) 9256 8600	Fax (08) 9455 1227

ARDEX New Zealand Ltd

Christchurch	Ph (03) 3843 029	Fax (03) 3849 779
Auckland	Ph (09) 2967 690	Fax (09) 2967 689
Wellington	Ph (04) 5685 949	Fax (04) 5686 376

Technical Services Toll Free: 1800 224 070

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