



POWERSTIK PLUS

FLEXIBLE NON SLUMP WALL AND FLOOR TILE ADHESIVE

- White
- Internal/External Use
- Australian Made

DESCRIPTION

ABA Powerstik Plus is a superior white polymer fortified cement-based wall and floor tile adhesive that has been specially formulated with light weight technology. ABA Powerstik Plus has an extended open time, is non slump and flexible and offers a light and creamy consistency for ease of use. Mix with water to achieve a mortar suitable for use in residential and commercial applications, both internal and external including swimming pools. ABA Powerstik Plus meets the Green Building Council of Australia Green Star IEQ-13 requirements for Ceramic Tile Adhesives.

FOR FIXING (TILE TYPES)

Fully vitrified and ceramic tiles, porcelain, natural stones (excluding moisture sensitive) and mosaics.

TO (SUBSTRATES)

Concrete, renders, screeds, fibre-cement sheet, plasterboard on walls, compressed fibre-cement sheet on floors, ABA and ARDEX liquid applied undertile waterproofing membranes, existing ceramic tiles (internal dry areas) CTU (Ceramic Tile Underlay) over timber particleboard sheet.

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 ABA Abaprime or ARDEX Multiprime.

Concrete

Early age concrete must be a minimum of 7 days old and no less than 20 MPa. Prior to tiling, remove any concrete sealers or curing compounds from the surface, e.g. resin, wax sealers. Steel trowel finished concrete shall be roughened mechanically to remove laitance and provide a good key for tiling. The surface shall be true and level and pitched to drains where required. Smooth surfaces and/or dense concrete greater than 35 MPa must be mechanically roughened prior to tiling.

Cement Render/ Screeds

New renders and screeds shall be finished with a wood float to the required surface regularity. Screeds shall be pitched to drains where required. Allow at least 16 hours to cure prior to tiling.

Plasterboard/ Medium Density Fibre-Cement Sheet on Walls

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.

ABA and ARDEX Liquid Applied Undertile Waterproofing Membranes

ABA and ARDEX undertile waterproofing must be applied according to instructions and thoroughly dry prior to tiling.

Compressed Fibre-Cement Sheet (Floors)

For both internal and external applications, tiling over compressed fibre-cement must be carried out as per sheet manufacturer's recommendations and Australian Standard AS 3958.

Ceramic Tile Underlay (CTU)

Should be fixed as per the CTU manufacturer's instructions. The CTU must be a minimum of 6mm and made specifically for this purpose. Tiles under 100mm edge length cannot be fixed using this method. Please refer to Ardex Technical Services for further details.

Existing Ceramic Tiles (Internal Dry Areas Only)

These include sound, clean, glazed and unglazed tiles. Existing tiles must be firm and stable. Roughen the surface by mechanical means, clean off contamination and dust before tiling. Ensure that at least 80% of the glaze is removed. Tiling over existing tiles is not recommended in immersed applications.

MIXING

ABA Powerstik Plus powder is added to clean water in a large clean container whilst stirring vigorously and mixed thoroughly to give a lump free easily worked mortar of a thick creamy consistency. Allow to stand for 3 minutes. Restir the mixture thoroughly and the adhesive is ready for use.

A 15kg bag of ABA Powerstik Plus requires 6.75 Litres of water. The consistency of the adhesive can be slightly adjusted to suit site conditions and size, weight and type of tiles and location the tiles are to be fixed. Do not apply at temperatures below 5 °C. The pot life of the mixed mortar is approximately 1.5 hours at 23 °C and 50% relative humidity.

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. ABA Powerstik Plus can be applied at a bed thickness greater than 3mm or less than 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 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.

ABA Powerstik Plus has an open time of 30 minutes and an 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 24 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

15kg of ABA Powerstik Plus is sufficient for approximately 12m² on walls, using a 6 x 6 x 6mm notched trowel and 7.5m² 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

ABA Powerstik Plus is packed in polylined paper sacks – net weight 15kg.

SHELF LIFE

ABA Powerstik Plus 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.

PAY ATTENTION TO THE FOLLOWING:

Do not use over metal or similar substrates. ABA Powerstik Plus is not suitable for use directly over timber floors.

ABA Powerstik Plus should not be used on floors with a deflection greater than the joist span divided by 500. Joist span must comply with AS 1684. ABA Powerstik Plus should not be used over substrates subject to shrinkage and other movement e.g. timber, ARDEX provides other systems.

For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System. Dimensional instability in natural stone ranges is often difficult to detect visually and may require thermal and moisture stability testing to ensure that adhesive recommendations can be warranted. Contact your tile supplier for further information or ARDEX technical services for information and testing.

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. 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.abaaustralia.com.au

TECHNICAL DATA

Colour:	White powder
Mixing Ratio:	6.75L litres water per 15kg powder
Application Properties at 23°C and 50% RH	
Open Time:	30 minutes
Adjustment Time:	20 minutes
Grouting Time:	24 hours
Pot Life:	1 - 1.5 hours
Underfloor Heating:	Yes

Mechanical Properties (ISO 13007)

Tensile Adhesion Strength after:	
28 days dry:	>1MPa
Water Immersion:	>1MPa
Heat:	>1MPa
Freeze Thaw:	>1MPa
Classification:	C2 T S1

PRODUCT GUARANTEE



Ardex Australia Pty Ltd (“we” or “us”) guarantees this product (also referred to as “our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 15 years from the date of application of the product if such application occurs within this product’s specified shelf life. 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 the cost of such replacement or repair, 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 our published instructions or any act or circumstance beyond our control, including shade variations and efflorescence and faulty workmanship on the part of any installer or applicator of the product. If you wish to make a claim under this guarantee you must notify us (address: 7/20 Powers Road Seven Hills NSW 2147; phone: 1800224070; email: technicalservices@ardexaustralia.com), identify the product and provide evidence of your purchase and the subsequent application 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 and to undertake any inspections and tests necessary to establish your rights under this guarantee. 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 or 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”.

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