ARDEX WR 120 FR

Fibre-Reinforced, Polymer Modified Render

Easy to use with superior non-slump and creamy consistency

Suitable for internal and external applications

Produces a trowel-applied build-up from 2-12mm with a fine finish, with no sagging or cracking

Can be pump-applied to a build-up of 30mm in one coat

Suitable for a variety of substrates including masonry, AAC blocks and concrete

No maturing time requiredcan be applied immediately after mixing

Fibre-reinforced
increased impact resistance and minimised cracking

Suitable for immersed applications such as swimming pools if water-proofed and tiled

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DESCRIPTION

ARDEX WR 120 FR is a fine-grade, fibre-reinforced, acrylic render suitable for rendering walls, both internally and externally, at an application thickness from 2-12mm. When used with an appropriate pump, a build-up of 30mm can be achieved in one coat. It can be applied over the following surfaces:

• Masonry (Brickwork & Blockwork)

• Concrete Walls

• AAC - Autoclaved Aerated Concrete Blocks and Panels

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. Green concrete should be allowed to cure for 28 days prior to rendering. If dry and porous, dampen the surface to be rendered by brushing or sponging the surface or applying a light mist spray of water to prevent rapid drying of the render. Dense concrete will require priming with ARDEX WR PRIME and allowed to dry for 30 minutes prior to the application of the render. Use of a primer will extend the working time of the render.

MIXING

1.   Add approximately 3.0 to 3.5L of clean water to a bucket.
2.   Gradually add 20kg of ARDEX WR 120 FR to the water whilst mixing with an electric mixer to disperse the powder into a creamy, lump free consistency.

APPLICATION

1.   Apply the render with a steel trowel, evenly spreading the mix over the surface.
2.   A straight edge can be used to check for level or flatness of the render.
3.   After 10-30 minutes, depending on ambient and surface conditions, work can begin on the surface finish. The surface finish can be made dense and smooth by using a wooden or plastic float or coarse and sandy by using a sponge to give the required effect.
4.   The mixed material is useable for up to 30-40 minutes @ 23ºC and 50% relative humidity.

PUMP APPLICATION

When spray applied with an appropriate pump, a build-up of 30mm can be achieved in one coat. Contact ARDEX Technical Services for pump applications.

RECOMMENDED METHODS OF PREPARATION AND APPLICATION

Masonry (Brickwork & Blockwork)

Ensure that masonry and mortar is applied according to

Australian Standard AS 3700 and is fully cured and with all expansion and movement joints in place. Clean off dust, oil, grease and all loose contaminating materials or coatings. If dry and porous, dampen the surface to be rendered by brushing or sponging the surface or applying a light mist spray of water to prevent rapid drying of ARDEX WR 120 FR.

A subsequent coat may be applied after 4-8 hours depending on ambient conditions and application thickness. Before application of a decorative finish (i.e. paint or façade membranes such as ARDEX WPM 310 and ARDEX WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

Concrete Walls

Clean off dust, oil, grease and all loose contaminating materials or coatings. If dry and porous, dampen the surface to be rendered by brushing or sponging the surface or applying a light mist spray of water to prevent rapid drying of ARDEX WR 120 FR. If dense and non-porous, use ARDEX WR 120 FR with ARDEX WR Prime at a dilution rate of 1:5 (ARDEX WR Prime/ water) for first coat. Concrete over 35MPa may require for the pores to be opened by mechanical means.
A subsequent coat may be applied after 4-8 hours depending on ambient conditions and application thickness. Before application of a decorative finish (i.e. paint or façade membranes such as ARDEX WPM 310 and ARDEX WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

AAC – Autoclaved Aerated Concrete Blocks and Panels

Clean off dust, oil, grease and all loose contaminating materials or coatings using a stiff brush. Prepare AAC blocks according to manufacturer's instructions. Apply 2 coats of ARDEX WR Prime; then use ARDEX WR 120 FR for first render coat. For AAC Panels, cover joints with alkali-resistant mesh tape to minimise cracking.

A subsequent coat may be applied after 4-8 hours depending on ambient conditions and application thickness. Before application of a decorative finish (i.e. paint or façade membranes such as ARDEX WPM 310 and ARDEX WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

FINISHING

After 10- 30 minutes, depending on ambient and surface conditions, work can begin on the surface finish. The surface finish can be made dense and smooth by using a wooden or plastic float or coarse and sandy by using a sponge to give the required effect.

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TILING OVER RENDER
The render must be applied at a minimum thickness of 2mm and have a sandy finish before tiling. Prime with ARDEX Multiprime and apply tiles with the recommended ARDEX adhesive for that type of tile. Please note, that weight loading limits apply for rendered surfaces; tiling must be performed in accordance with the current version of AS3958. ARDEX WR 120 FR is only suitable to be tiled over if used over concrete, concrete blockwork, brickwork and AAC Concrete Blocks and Panels.

RENDERING IN IMMERSED SITUATIONS
ARDEX WR 120 FR is suitable for swimming pools and other immersed applications; however, it must be completely primed, waterproofed and tiled. ARDEX WR 120 FR cannot be left exposed in immersed situations. Please call ARDEX Technical Services for more information if ARDEX WR 120 FR is to be used in swimming pools or other immersed applications.

DRYING TIME
The render surface is touch dry in 1-2 hours @ 23ºC. A subsequent coat may be applied after 4-8 hours depending on ambient conditions and application thickness and the surface will reach full cure after 7 days. Before application of a decorative finish (i.e. paint or façade membranes such as ARDEX WPM 310 and ARDEX WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render. Cold, damp or humid conditions may lengthen the drying time.

COVERAGE
Coverage will vary depending on the condition of the surface and site conditions. As a guide, 20kg of ARDEX WR 120 FR mixes to 13 litres of mortar. As a guide, 20kg will cover:

• 6.5m2 at 2mm thickness

• 2.6m2 at 5mm thickness

• 1.3m2 at 10mm thickness

CLEAN UP
Clean all tools in water immediately after use.

SHELF LIFE
ARDEX WR 120 FR 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:
ARDEX WR 120 FR is not suitable for use over floors and ceilings and is not suitable for application over painted surfaces, any fibre-cement sheets or existing renders. Adequate movement joints are required to minimise cracking on the surface of the render. To avoid damage and for ease of cleaning all windows and doors should be masked and covered. Do not apply in temperatures below 5ºC or above 35ºC or application in extreme conditions such as high wind or direct sunlight and shelter from rain and moisture for 24 hours after completion.

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.ardexaustralia.com

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TECHNICAL DATA

Product Charactertistics

Colour	Light Grey Powder

Characteristics of Mix

Mixing Ratio	3-3.5L/20kg Powder

Application Properties

Pot Life	30-40 minutes
Touch Dry	1-2 hours
Recoat Time	4-8 hours
Full Cure	7 days