ARDEX WR 80 FR

Fibre-Reinforced Polymer Render ideal for non-porous and Flexible Substrates

Easy to use with superior non-slump and creamy consistency

Suitable for internal and external applications

Produces a build-up from 2-10mm with a medium-fine finish with no sagging or cracking

Suitable for a variety of substrates including painted surfaces, masonry, AAC blocks, EPS foam panels, blueboard and concrete

No maturing time required - can be applied immediately after mixing

Fibre-reinforced for increased impact resistance and minimised cracking

Can be pump-applied to a build-up of 40mm in one coat

ARDEX WR 80 FR

Fibre-Reinforced Polymer Render Ideal for Non-porous and Flexible Substrates

DESCRIPTION

ARDEX WR 80 FR is a fine-medium grade render and is suitable for rendering walls, both internally and externally, at an application thickness from 2-10mm. When used with an appropriate pump, a build-up of 40mm can be achieved in one coat on concrete and masonry. It can be applied over the following surfaces:

• Masonry (Brickwork & Blockwork)

• Concrete walls

• AAC - Autoclaved Aerated Concrete Blocks and Panels

• EPS Foam Panels**

• Existing render

• Blueboard**

• Painted surfaces*

** highly critical application. Light Reflectance Value (LRV) of final coating has to be greater than 40; please contact the coating manufacturer.

SURFACE PREPARATION

Clean off dust, oil, grease, release agents and curing compounds, and all loose contaminating materials and coatings other than paint*. 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.

*PAINTED SURFACES

ARDEX WR 80 FR can be applied to alkali stable paints; pre-painted substrates must be mechanically roughened or washed with a pressure cleaner to ensure loose or unstable paint is removed. Consult with the paint manufacturer if paint is suitable to be rendered over. It is not recommended to tile over the render when applied over existing paint.

MIXING

1. Add approximately 3.5 to 4L of clean water to a bucket.

2. Gradually add 20kg of ARDEX WR 80 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. After 10-30 minutes, depending on ambient and surface conditions, work can begin on the surface finish. The surface finish can be dense and smooth by using a wooden or plastic float or coarse and sandy by using a sponge to give the required effect.

3. The mixed material is useable for up to 30-40 minutes at 23ºC and 50% relative humidity.

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 with joints applied. Clean off dust, oil, grease and all loose contaminating materials or coatings such as release agents or curing compounds. 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 80 FR.

A subsequent coat of ARDEX WR 80 FR 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 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, release agents and curing compounds, and all loose contaminating materials and coatings other than paint*. 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 80 FR. Concrete over 35MPa may require for the pores to be opened by mechanical means.

A subsequent coat of ARDEX WR 80 FR 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 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 other than paint* using a stiff brush. Prepare AAC blocks according to manufacturer's instructions. Apply 1-2 coats of ARDEX WR Prime; then use ARDEX WR 80 FR for first render coat. For AAC Panels, cover joints with alkali-resistant mesh tape to minimise cracking.

A subsequent coat of ARDEX WR 80 FR 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 WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

EPS Foam Panels

Clean off dust, oil, grease and all loose contaminating materials or coatings other than paint*. Please note, polystyrene panels are UV sensitive, do not leave exposed to direct sunlight for an extended period of time before render is applied. For added stability and to minimise cracking, apply alkali-resistant mesh (minimum of 160gsm) throughout the first coat.

A subsequent coat of ARDEX WR 80 FR 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 WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

Existing Render

Clean off dust, oil, grease, release agents and curing compounds, and all loose contaminating materials and coatings other than paint*. Ensure that the substrate is able to cope with the additional weight of the new render coat on top of the the dead load of the existing render. The existing render must be sound; remove any loose or drummy parts of the render. 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 80 FR.

A subsequent coat of ARDEX WR 80 FR 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 WPM 330) allow the render to cure for a minimum of 1 day for each 2mm thickness of the render.

Blueboard/Fibre-cement Sheet

Refer to sheet manufacturer's recommendation regarding suitability of product over Blueboard/Fibre-cement Sheet and ensure sheets are fixed and joined according to sheet manufacturer's recommendation.

FINISHING

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

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 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.

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 AS 3958. ARDEX WR 80 FR is only suitable to be tiled over if used over concrete, concrete blockwork, brickwork and AAC Concrete Blocks and Panels. ARDEX WR 80 FR is not suitable to be tiled over when applied over existing paint, fibre cement sheets, blueboard, existing render and EPS panels.

COVERAGE

Coverage will vary depending on the condition of the surface and site conditions. As a guide, 20kg of ARDEX WR 80 FR mixes to 13 litres of mortar. As a guide, 20kg will cover:
- 6.5m^2 at 2mm thickness
- 2.6m^2 at 5mm thickness
- 1.3m^2 at 10mm thickness

PACKAGING

ARDEX WR 80 FR is packed in polylined paper sacks – net weight 20kg.

CLEAN UP

Clean all tools in water immediately after use.

SHELF LIFE

12 months when stored in a dry place, in original unopened packaging.

Pay Attention to the following:

ARDEX WR 80 FR is not suitable for use over floors. Adequate movement joints are required to minimise cracking on the surface of the render. Do not apply in temperatures below 10ºC 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. To avoid damage and for ease of cleaning all windows and doors, including frames should be masked and covered. Do not apply in swimming pools. Do not apply over flexible waterproofing membranes.

SAFETY PRECAUTIONS

This product is considered non-hazardous in normal usage. 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 eye protection and keep the product out of the reach of children. Avoid the generation of airborne dust during mixing. If swallowed do not induce vomiting, give a glass of water and contact a doctor.

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

TECHNICAL DATA

Product Charactertistics
Colour	Grey Powder

Characteristics of Mix
Mixing Ratio (trowel-on mix)	3.5 to 4L/20kg Powder

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

Weight Per Square Metre
2mm	3.6kg/sqm
5mm	9kg/sqm
10mm	18kg/sqm
20mm	36kg/sqm
30mm	54kg/sqm
40mm	72kg/sqm

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