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PRODUCT DATA SHEET

# ARDEX W 820 SUPERFINISH

## Universal Finishing Plaster



### Features

- Roller, spray or hand applied for fast track installation
- Can be used to create decorative designs
- 3 hour pot life, ideal for larger areas
- Receive finishes in as little as five hours
- Can be applied from a feather edge to 20mm in a single application
- Spray apply for the most economical way to plaster a wall
- Clean application, no overspray
- For use on walls and ceilings
- Easy to apply and sand
- Slump free



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OHS 628374

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# ARDEX W 820 SUPERFINISH

## Universal Finishing Plaster

### DESCRIPTION

ARDEX W 820 SUPERFINISH is a brilliant white, rapid hardening, polymer modified gypsum based compound for filling, smoothing and finishing interior walls and ceilings.

ARDEX W 820 SUPERFINISH can be applied in thin and thick applications and, with its non-shrink formulation, it is an ideal background to apply paint, wallpaper and other decorative finishes.

### USE

ARDEX W 820 SUPERFINISH can be applied in a variety of ways, by hand, roller or spray application to plaster, walls and ceilings.

ARDEX W 820 SUPERFINISH is ideal for fast track installation when covering larger areas. ARDEX W 820 SUPERFINISH can also be used to create decorative designs.

ARDEX W 820 SUPERFINISH can be used on the following substrates:

- Plasterboards
- Pre-rendered walls
- Suitable concrete backgrounds
- Aerated concrete
- Lightweight blocks
- Construction boards
- Filling of joints in plasterboards and prefabricated concrete slabs

### SUBSTRATE PREPARATION

Surfaces should be rigid, dry, clean and free from dust, grease and other barriers to adhesion. The product will adhere directly to plasterboards, absorbent construction boards, cement/sand renders and gypsum based plasters without priming.

Concrete or highly absorbent surfaces may require priming with ARDEX P 51 Concentrated Water-Based Primer and Bonding Agent. Dilute with 3 parts water to 1 part primer, apply with a brush and allow to dry.

Smooth and dense surfaces such as varnished finishes, oil based paints and other non-absorbent finishes may require priming with ARDEX P 82 Water Based Epoxy Primer and Bonding Agent or, ARDEX P 4 Ready Mixed Rapid Drying Multi-Purpose Primer.

**NOTE:** When required, compatible primers should always be used. If in doubt perform a trial application.

### MIXING

#### 1. Application by roller:

Gradually add the powder to clean water while stirring continuously. The use of a drill and the appropriate spiral mixing paddle, suitable for the volume being mixed, is recommended. Use between 14.75 litres and 16 litres of water per 25kg bag depending on the consistency required. Allow the product to stand for 2-3 minutes to allow all of the high performance additives to fully dissolve and wet out before remixing the product to a smooth creamy consistency.

Roller application requires a coarse pile roller (20mm). Apply the mixed product to the entire surface to be plastered in a vertical motion, ensuring adequate coverage. Allow this application to dry before applying a second application of ARDEX W 820 SUPERFINISH at right angles to the first application (horizontally) and, whilst fresh, smooth with a smoothing blade, straight edge or steel float.

#### 2. Application by spray pump:

Gradually add the powder to clean water in a cylindrical bucket. The use of a drill and an appropriate spiral mixing paddle suitable for the volume being mixed is recommended. Use between 12.5 litres and 14 litres of water per 25kg bag depending on the consistency required. Mix to a lump free, smooth, thin consistency. Use a spray nozzle suitable for the application requirements.

**NOTE: Only mix ARDEX W 820 SUPERFINISH once if application is to be performed with spray pumps. Standing time and remixing are not required. If spray pumps/spiral mixers are used, interruption of work between mixes should not exceed 15-20 minutes depending on conditions. If longer interruption of works cannot be avoided, the machine must be cleaned thoroughly.**

For spraying thinner coats on to larger areas, use nozzles sized 535-543.

For filling holes, depressions or joints between plasterboards use nozzle size 243.

#### 3. Application by hand:

Gradually add the powder to clean water while stirring continuously. The use of a drill and appropriate spiral mixing paddle suitable for the volume being mixed, is recommended. Use between 11 litres

and 12.5 litres of water per 25kg bag depending on the consistency required. Allow the product to stand for 2-3 minutes to allow all of the high performance additives to fully dissolve and wet out before remixing the product to a smooth creamy consistency.

### APPLICATION

Small quantities can be mixed by hand. Gradually add 2 parts by volume of powder to 1 part by volume of clean water and thoroughly mix to the consistency required. Allow the product to stand for approximately 2-3 minutes after mixing to allow all of the high performance additives to fully dissolve and wet out before remixing the product to a smooth creamy consistency.

Apply with a notched/smooth steel trowel, coarse roller, spray pump, blade or filling knife. Notched trowel and roller application techniques require smoothing after application to the substrate, with a large straight edge/smoothing blade to create a smooth uniform finish.

All application techniques can be smoothed with a straight edge/smoothing blade. Apply at temperatures above 5°C.

### For Filling Holes

ARDEX W 820 SUPERFINISH can be used as a filling compound up to 20mm in thickness; holes should be filled gradually from the edges to help avoid air bubbles. Any imperfections should be removed with a damp sponge prior to drying, thus avoiding the need for sanding down. It is also possible to remove imperfections with a damp sponge and re-trowel to create a smooth finish. If preferred, the product can be sanded smooth when it has hardened to remove any imperfections or alternatively a subsequent coating may be applied.

Installation of reinforcing mesh/tapes may not be necessary for certain applications, however, their use is recommended.

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### THICKNESSES

ARDEX W 820 SUPERFINISH can be applied from a feather edge up to 20mm in one application. If entire surfaces are to be 'skimmed' the minimum thickness should be no less than 3mm.

### DRYING TIMES

Decorative finishes such as paint or wallpaper, can be applied once the surface is dry. Drying times vary according to the ambient conditions and bed thickness. At 20°C a 10mm thick layer will be surface dry in approximately 5-6 hours. Thicknesses over 50mm will take 3 days to dry.

Thicknesses between 0-3mm can be painted after the surface is hard enough to sand down.

**NOTE:** For thick applications in time sensitive installations, consider using ARDEX R 1. Allow this to dry before applying ARDEX W 820 SUPERFINISH, if required.

### SUBSEQUENT TREATMENT

ARDEX W 820 SUPERFINISH can be used as a decorative surface finish using varying techniques as required. If in doubt perform a trial application.

Do not use material that has started to harden. Clean equipment after use and between mixes as material that is setting can shorten the pot life of subsequent mixes.

### COVERAGE

Approximately: 14m<sup>2</sup> @ 2mm thick (roller application).

Approximately: 9m<sup>2</sup> @ 3mm thick (spray application).

Approximately: 26m<sup>2</sup> @ 1mm thick (hand application).

### PACKAGING

ARDEX W 820 SUPERFINISH is packaged in paper sacks with a polyethylene lining – net weight 25kg.

### STORAGE AND SHELF LIFE

This product must be stored in its original packaging, clear of the ground, in cool, dry conditions and protected from excessive temperatures. If stored correctly, the shelf life of this product is 12 months. Ensure part-used bags are resealed.

- Non-combustible - A1 in accordance with EN 13501-1
- Conforms to EN 13963: 2014 Jointing Material for Gypsum Boards
- Conforms to EN 13279-1 Gypsum binders and gypsum plasters. Definitions and requirements

### TECHNICAL DATA

Technical data according to ARDEX quality standards:

Mixing ratio: approx. 11-16 litres of water to 25kg powder (dependent on application method)

Following data based on mixing ratio of 1 part water: 2 parts powder

Bulk density: approx. 1.1kg/litre

Mortar weight when freshly mixed: approx. 1.45kg/litre

Material requirement: approx:  
1.0kg powder per m<sup>2</sup> per mm 11- 12.5 litres of water  
0.9kg powder per m<sup>2</sup> per mm 15-16 litres of water

Working time at (20°C): approx. 3 hours

### COMPRESSIVE STRENGTH

after 28 days: approx. 4 N/mm<sup>2</sup>

### TENSILE BENDING STRENGTH

after 28 days: approx. 2 N/mm<sup>2</sup>

pH value: Approx. 7

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

### TECHNICAL ADVICE HELPLINE

01440 714939

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