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PRODUCT DATA SHEET

# ARDEX R 1

## Renovation Plaster

### Features

- Ideal for problem walls, covers ARTEX and sound wallpapers, paint and tiles
- Ideal for smoothing and plastering walls and ceilings in renovation projects
- No priming required
- Can receive finishes in as little as 24 hours, regardless of thickness
- Brilliant White
- Tension and crack free
- Slump free

**RAPIDRY**



Binds the mix water within the mortar, speeding drying and hardening times irrespective of application thickness



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# ARDEX R 1

## Renovation Plaster

### DESCRIPTION

ARDEX R 1 is a brilliant white, cementitious, Rapid Drying Renovation Plaster for difficult walls and ceilings.

### USE

Smoothing and plastering of walls and ceilings in dry internal areas, prior to the application of wallpaper, paints, dispersion based renders and other wallcoverings. Suitable for use on existing finishes and new backgrounds such as:

- Concrete
- Cement and Lime renders
- Plaster
- Plasterboards
- Brickwork
- Mineral decorative renders (ARTEX)
- Ceramic tiles
- Washable paints
- Old latex paints
- Acrylic paints
- Sound wallpapers
- Fibre reinforced wallpapers
- Sound tile adhesive

### SUBSTRATE PREPARATION

Surfaces should be sound, dry, clean and free from dust, grease, release agents and other barriers to adhesion. Surfaces/finishes that are not firmly adhered, should be removed. Priming is rarely required, on absorbent surfaces it is recommended that a scratch coat of ARDEX R 1 is applied, then 30-60 minutes later apply the final coat.

It is recommended that plaster based substrates should be primed 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. Acrylic based paints and abraded tiling require a thin scratch coat, which should be allowed to dry, normally 30-60 minutes in good conditions, before the second coat of ARDEX R 1 can be applied.

**NOTE:** Old decorative finishes on walls and ceilings, such as 'ARTEX', can be smoothed with ARDEX R 1 without priming. Checks should be performed to ensure that the old coverings are sound, free of barriers to adhesion and well-adhered to the background.

Remove high spots with the edge of a steel float. Apply a thin scratch coat of mixed ARDEX R 1 to fill the surface of the structured finish. Allow to dry, normally 30-60 minutes in good conditions, before applying an additional layer of mixed ARDEX R 1 to the required thickness. This can be smoothed with a large straight blade whilst still fresh.

### MIXING

Gradually add 2 parts powder to 1 part clean water in a mixing bucket whilst stirring, and thoroughly mix until a lump free consistency is achieved. The use of a drill and appropriate mixing paddle, suitable for the volume to be mixed, is recommended. Mixing by hand is possible for small quantities. Allow the product to stand for approximately 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. The mixed plaster is easy to apply, with a working time of approximately 30 minutes.

### APPLICATION

For best results ARDEX R 1 Renovation Plaster should be applied in a two coat process. The unique rapid drying properties of ARDEX R 1 allows entire walls to be smoothed and finished in one process, rather than stage by stage application and finishing, more associated with traditional gypsum based plasters.

Apply with a trowel, blade or filling knife. Holes should be filled gradually from the edges to help avoid any 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. Apply at temperatures above 5° C.

### THICKNESSES

ARDEX R 1 Renovation Plaster can be applied up to 50mm in one application and will be fully dry in one day.

### DRYING TIMES

Applications on to absorbent surfaces will be dry in as little as 6-8 hours. Applications on to dense non-absorbent surfaces will be dry in as little as 24 hours.

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.

**NOTE:** Even thick layers will be dry in 24 hours, in good conditions 18-20°C enabling subsequent application of paint and wallpaper.

### COVERAGE

Approx. 27m<sup>2</sup> @ 1mm thick.

### PACKAGING

ARDEX R 1 Renovation Plaster is packaged in paper sacks with a polyethylene lining – net weight 25kg & 5kg.

### 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 6 months. Ensure part-used bags are resealed.

### TECHNICAL DATA

According to ARDEX quality standards:

Mixing ratio: approx. 12.5 litres of water - 25kg powder is equivalent to approx. 1 part water: 2 parts powder

Bulk density: approx. 1.0kg/litre

Fresh mortar weight: approx. 1.4kg/litre

Material requirement: approx. 1.0kg of powder per m<sup>2</sup>/mm

Working time: approx. 30 minutes

#### Compressive strength

1 day: approx. 5 N/mm<sup>2</sup>  
7 days: approx. 9 N/mm<sup>2</sup>  
28 days: approx. 11 N/mm<sup>2</sup>

#### Tensile bending strength

after 1 day: approx. 2.0 N/mm<sup>2</sup>  
after 7 days: approx. 3.0 N/mm<sup>2</sup>  
after 28 days: approx. 4.0 N/mm<sup>2</sup>

pH value:

Wet mortar: approx. 12

Dry mortar: approx. 10

**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

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