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PRODUCT DATA SHEET

ARDEX AM 100

Rapid Setting One Coat Tiling Render

Features

- Tiles can be fixed in as little as 2 hours
- Apply 2-30mm in a single application
- Easy to use
- Suitable for internal and external areas, including swimming pools



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ARDEX AM 100

Rapid Setting One Coat Tiling Render

DESCRIPTION

ARDEX AM 100 is a grey rapid-setting sand and cement render that can receive tiling in as little as 2 hours after application. It is pre-blended, requiring only the addition of water to produce a slump free mortar that can be applied 2-30mm thick in a single coat.

USE

ARDEX AM 100 can be applied from 2mm up to 30mm thickness in a single coat, and is particularly useful in situations where the drying time and thickness of conventional sand and cement renders cannot be accommodated.

ARDEX AM 100 is suitable for rendering suitably prepared in-situ concrete walls, brickwork and block work.

ARDEX AM 100 is suitable for use in internal and external areas, including swimming pools.

SURFACE PREPARATION

All backgrounds must be suitably stable and any movement joints brought through to the tiling surface. All surfaces must be clean, firm and free of dust, dirt, oil, grease, paint, gypsum plaster and other barriers to adhesion; the use of suitable mechanical preparation equipment may be required. They must have had adequate drying time as given in the relevant part of BS 5385, i.e. in-situ concrete walls, brickwork and block work should be allowed to shrink for at least 6 weeks.

When rendering to concrete substrates, the aggregate surface should be exposed as advised in BS 5385.

Settlement cracks can be filled with rendering mortar; however, if they are caused by structural movement, there is no guarantee they can be eliminated. Small cracks should be cut out and enlarged so that better contact is obtained.

Metal components must be given adequate corrosion protection.

Anchored reinforcements should be installed and mechanically fixed to the background when rendering to the following backgrounds/locations: dense surfaces such as glazed bricks or ceramic tiles; timber framed constructions; old paint finishes that cannot be removed and other weak surfaces; and above first floor heights externally. All reinforcement and mesh must be secured in accordance with the manufacturer's guidance and/or BS 5385.

NOTE: The substrate must be prepared, whether internal or external, so as to guarantee the adhesion of the render mortar when applied.

MIXING

The mix proportions by volume are approximately 3.5 parts ARDEX AM 100 powder to 1 part clean water. A 25kg bag of ARDEX AM 100 requires approximately 5 litres of water.

Add the ARDEX AM 100 powder to the water in a clean container, whilst stirring and mixing thoroughly until a slump-free mortar is achieved. The use of an ARDEX mixing paddle with a 10mm chuck, variable-speed electric drill makes light work of mixing, or a forced action mixer can be used for larger quantities.

The pot life of the mixed mortar is approximately 30 minutes at 20°C. This time will be extended in lower temperatures and shortened at higher temperatures.

APPLICATION

Apply at temperatures above 5°C.

ARDEX AM 100 should firstly be applied as a 1-2mm thick skim coat/bonding layer, before the remaining required thickness (up to 30mm) is applied fresh-in-fresh.

When applying to the deeper thicknesses over larger areas, the material can be applied in two layers if preferred. For example, for a total depth of 30mm, a 25mm thick later can be applied, allowed to harden and then followed by a 5mm thick layer. When applying in two layers, ensure the top layer is always thinner than the initial layer.

TREATMENTS & TILING

Depending on the porosity of the background being rendered, further treatment such as wood floating can be carried out between 40 minutes and 1 hour after application at 20°C.

If required, ARDEX waterproof coatings, ARDEX WPC for wet (not submerged) areas and ARDEX S 7 PLUS for swimming pools, can be applied typically after 2 hours at 20°C.

Tiles can typically be fixed in as little as 2 hours at 20°C using an appropriate ARDEX Cement-Based Tile Adhesive.

These times are dependent on site conditions, and will be extended in lower temperatures and shortened at higher temperatures.

NOTE: When tiling, the rendering should be finished to SR1 as per BS 5385.

COVERAGE

Approximately 1.3kg of ARDEX AM 100 powder/m²/mm i.e. a 25kg bag will cover approximately 3.2m² at 6mm thick.

PACKAGING

ARDEX AM 100 is available in a 25kg pack size, packed in paper sacks incorporating a polyethylene liner.

STORAGE AND SHELF LIFE

ARDEX AM 100 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

NOTE: For the latest technical or health and safety data on this product, consult the current technical or health and safety datasheet online at www.ardex.co.uk

TECHNICAL DATA

Bulk density:	approximately 1.5kg/litre
Weight of fresh mortar:	approximately 1.6kg/litre
Application time (20°C):	approximately 30 minutes
Ready to receive wall tiling (20°C):	approximately 2 hours

Compressive Strength:

After 1 day	
After 7 days	approximately 4 N/mm ²
After 28 days	approximately 7 N/mm ² approximately 11 N/mm ²

Tensile Bending Strength:

After 1 day	approximately 1.5 N/mm ²
After 7 days	approximately 2 N/mm ²
After 28 days	approximately 3 N/mm ²

pH value:	Fresh mortar containing cement, approximately 12
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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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