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# ARDEX DPM

## Surface Damp Proof Membrane - Residual Moisture Suppressant

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Suppresses residual constructional moisture in cement/sand screeds and concrete floors

Can accommodate Hygrometer readings up to 98% RH

Guarantees the early laying of all floorcoverings

Easy to apply and fast curing

Available in two colours to allow the user to visually control coverage uniformity

Provides a sandwich damp proof membrane with ARDEX smoothing and levelling compounds

Can be used in conjunction with ARDEX Industrial Systems

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### DESCRIPTION

ARDEX DPM is a solvent free, low viscosity, two component epoxy resin. After hardening the ARDEX DPM produces a membrane with high inherent strength and excellent bond strength to appropriate substrates including very damp concrete and screeds.

### APPLICATIONS

ARDEX DPM has been specifically developed to suppress residual moisture in concrete and cement/sand screeded subfloors and provides a surface damp proof membrane where a DPM is not present in the floor or it is not effective. ARDEX DPM allows for the early installation of moisture sensitive floorcoverings/coatings in fast track building operations.

### FEATURES & BENEFITS

- ARDEX DPM accommodates hygrometer readings up to 98% RH.
- ARDEX DPM has excellent resistance to water, grease, oil, aqueous salt solution, dilute mineral and organic acids and organic liquids and solutions.
- ARDEX DPM is supplied in two colours, red for the first coat and green for the second coat, as a visual aid to application, thickness and coverage.

### SUBSTRATE PREPARATION

The surface to be coated must be hard, sound and free of dust, laitance, dirt and other barrier materials such as paint, lime coatings, plaster and adhesive residues.

Any existing screeds or levelling/smoothing compounds not resistant to moisture must also be removed. Use a degreaser to remove polish, wax, grease, oil and similar contaminating substances, followed by thorough mechanical preparation.

Concrete curing agents, admixtures and surface hardeners and the residues of these products can impair adhesion. Where doubt exists or the compatibility is unknown a trial adhesion test with the ARDEX DPM should be carried out

before work commences. Any incompatible curing agents, admixtures, surface hardeners or other surface contamination should be removed by scabbling, grinding, shot blasting or hot compressed air, as appropriate.

NOTE: ARDEX DPM must not be used over a sub-floor containing underfloor heating.

MOVEMENT JOINTS: Any joints or cracks in the floor subject to movement, such as structural movement joints, must not be bridged with the ARDEX DPM System. These joints must be treated with a flexible impervious jointing system and be carried through to the floor finish.

### MIXING

The individual components of the ARDEX DPM should be thoroughly stirred before being mixed together. The entire contents of the hardener container (component B) should be poured into the resin container (component A) and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill and spiral paddle.

Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.

NOTE: Once mixed, the ARDEX DPM will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk, therefore the ARDEX DPM should be poured directly onto the floor and distributed without delay to the prepared surface using a brush or short/medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur.

### APPLICATION

Apply an even coat of the mixed ARDEX DPM by means of an appropriate notch trowel such as a 1.5 mm x 5 mm V shaped notched trowel. Whilst

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the ARDEX DPM is still wet, the serration ridges should be flattened out with a long handled short pile paint roller, initially pre-wetted with the mixed ARDEX DPM. The thickness of application should not be less than 200 microns per coat, this can be checked using the ARDEX wet film thickness gauge. Coverage of 4 m<sup>2</sup>/kg should not be exceeded.

NOTE: Coverage rates will be reduced by rough, porous substrates; pre-smoothing with ARDITEX, ARDITEX NA, ARDEX K 301 or ARDEX S 21 is recommended to aid application and improve yield.

NOTE: For applications on either calcium sulphate or Heated Screed Systems, consult the ARDEX Technical Services.

It is essential that the applied ARDEX DPM is continuous and free from pinholes or cavities, otherwise an additional application will be necessary. Allow to cure between coats. The second coat can usually be applied approximately 8 hours after the first one.

### Latex Underlayment (ARDITEX /ARDITEX NA)

1. Apply an even continuous coat of mixed ARDEX DPM as per application instructions and allow to cure, usually 8 hours at 20°C.
2. Apply a second coat of ARDEX DPM as above, but at right angles to the first coat and allow to cure, usually 8 hours at 20°C.
3. Apply ARDITEX, ARDITEX NA or ARDITEX RS PLUS smoothing compound to a minimum depth of 3 mm, maximum 6 mm to the cured ARDEX DPM and allow to dry. Ensure if using ARDITEX RS PLUS, it is applied within 48 hours, otherwise, apply ARDEX P 82 primer to the DPM.

ARDITEX Latex Based Smoothing Compounds

NOTE: If the existing subfloor is not sufficiently smooth, pre-levelling can be undertaken with an ARDEX latex based smoothing compound.

### Self-levelling Underlayment (ARDEX Underlayments)

1. Apply an even continuous coat of mixed

ARDEX DPM as per application instructions and allow to cure, usually 8 hours at 20°C.

2. Apply a second coat of ARDEX DPM as above, but at right angles to the first coat and allow to cure, usually 8 hours at 20°C.
3. Prime the cured ARDEX DPM with ARDEX P 82 primer (consult Priming and Preparation data sheet) and allow to dry.
4. Apply the required ARDEX levelling/smoothing compound to a minimum depth of 3 mm, maximum 6mm and allow to dry.

NOTE: If the subfloor is not sufficiently smooth, pre-levelling can be undertaken with either ARDEX S 21 or ARDEX K 301.

### Installing a Bonded Rapid Dry Screed when a Damp Proof Membrane is missing or ineffective

1. Mechanically prepare the concrete slab to expose a clean, sound surface.
2. Apply an even continuous coat of mixed ARDEX DPM as per application instructions and allow to cure, usually 8 hours at 20°C.
3. Apply a second coat of ARDEX DPM or as above, but at right angles to the first coat and allow to cure.
4. Apply a third coat of ARDEX DPM or ARDEX R 3 SE and whilst still tacky, blind with 600 micron dry silica sand or ARDEX Fine Aggregate and allow to cure.

NOTE: Apply sufficient sand to give a key free from resin. Remove excess sand by vacuum cleaner when cured.

5. Apply a bonded ARDEX A 35 rapid setting, hardening and drying screed (consult the product data sheet).

### **COVERAGE**

Approximately 4 m<sup>2</sup>/kg e.g. one 6 kg unit will cover approximately 24 m<sup>2</sup> per coat at 200 microns.

### **PACKAGING**

ARDEX DPM is supplied in pre-gauged metal duo containers. The hardener (component B) is in the small container and the resin (component A) is in the large container with room to mix in the hardener (component B) - net weight 6 kg.

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15 kg units of ARDEX DPM are supplied in pre-gauged plastic containers packed in a larger plastic mixing vessel.

### TECHNICAL DATA

Mixing ratio:	A: B 2:1 by weight
Density @20°C:	1.18
Working time:	20 minutes
Recoat time:	8 hours
Walkability:	approx. 6-8 hours

### STORAGE AND SHELF LIFE

Store in dry conditions. ARDEX DPM has a storage life of not less than 12 months in the original unopened containers.

### CLEANING

All tools should be cleaned before the ARDEX DPM cures.

### SAFETY PRECAUTIONS

The hardener which contains 4,4' - isopropylidenediphenol and amines classified as corrosive and the epoxy resin which contains bisphenol A/F-epichlorhydrin, can be irritating to the eyes and skin, and may cause sensitisation by contact. They are considered harmful in contact with the skin and if swallowed. During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials.

Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. The Material Safety Datasheet is available upon request and online at [www.ardex.com.sg](http://www.ardex.com.sg).

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