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PRODUCT DATA SHEET**

# ARDEX WPM 300

## Two Component, Residual Moisture Vapour Suppressant

### Features

- Suppresses residual construction moisture in concrete slabs and cement/sand screeds
- Suitable for use on subfloors up to 90%RH
- Apply ARDEX Levelling and Smoothing Compounds 24 hours after second coat
- Suitable for use on heated screeds and concrete
- Low V.O.C. Technology



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# ARDEX WPM 300

## Two Component Residual Moisture Vapour Suppressant

### DESCRIPTION

ARDEX WPM 300 is a two component, water borne epoxy coating supplied in pre-gauged 10 litre unit. ARDEX WPM 300 is supplied in white and is waterproof when fully cured.

ARDEX WPM 300 is designed to suppress residual moisture in cementitious substrates and suitably prepared power floated concrete and cement/sand screeds. ARDEX WPM 300 is designed for use as a two-coat system. When fully dry, two coats of ARDEX WPM 300 produces a membrane which can accommodate hygrometer readings up to 90% RH and allows the subsequent application of ARDEX Levelling and Smoothing Compounds following priming with ARDEX P 82.

ARDEX WPM 300 can be used on heated screeds that have been installed and commissioned in accordance with BS 8204 Part 1, taking into account the recommendations in Part 4 of BS EN 1264. It is not suitable for use on direct to ground substrates without a functioning, damp proof membrane.

Please refer to the ARDEX DPM 1 C or ARDEX DPM 1 C R datasheet for applications where no structural damp proof membrane exists, or the relative humidity is above 90% RH.

### MOISTURE TESTING

Moisture testing should be undertaken in accordance with BS 8203: 2001+ A1:2009.

### SUBSTRATE PREPARATION

Prior to application, the surface must be hard, surface dry, sound and free of dust, laitance, dirt, and other barrier materials which are likely to impair adhesion such as paint, lime coatings, plaster and adhesive residues. Remove all surface water. Highly polished power floated concrete or concrete curing agents, admixtures, surface hardeners and the residues of these products can impair adhesion. Where doubt exists, or the compatibility is unknown, a trial adhesion test with ARDEX WPM 300 should be carried out before work commences. Any incompatible curing agents, admixtures, surface hardeners or water sensitive materials such as adhesive residues or other surface contamination must be removed by grinding or contained shot blasting as appropriate.

### MIXING

Thoroughly mix the two components in the ratio of 1:1 by volume until a homogeneous blend is obtained. Only mix as much as may be used within the pot life and avoid excessive aeration during mixing.

### MOVEMENT JOINTS

Any joints or cracks in the floor subject to movement, such as structural movement joints, must not be bridged with the ARDEX WPM 300. These joints should be treated with a flexible, impervious jointing system before ARDEX WPM 300 is applied. Structural movement joints should be brought through to the final floor finish with a suitable movement joint detail.

Cracks present in the screed or concrete substrate, that are not subject to movement but could affect the integrity of the ARDEX WPM 300, must be fully stitched and sealed with the appropriate ARDEX product, sand keyed whilst still wet and be allowed to cure, with any loose sand vacuumed away before the ARDEX WPM 300 is applied.

**Not suitable for use under floorings which have a low moisture vapour transmission such as rubber floorings or some multilayer vinyl floorings. For these applications consult the ARDEX MVS 95 or ARDEX DPM 1 C R datasheets.**

### APPLICATION

The product should be applied whilst the surface temperature is between 10–35°C. The product will cease to cure below 10°C. Curing time will also be adversely affected in situations where relative humidity is >85%. In enclosed areas, ventilation must be provided during curing cycle to enable adequate evaporation of the water.

Apply the ARDEX WPM 300 using a B1 (6 x 2mm) V shaped notched trowel held at an approximate 60° angle.

Whilst the ARDEX WPM 300 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 WPM 300.

Depending on the porosity/absorbency of the subfloor and the ambient conditions, the first coat of ARDEX WPM 300 should be dry in 4 hours at 20°C. These times may be extended at lower temperatures and/or in high humidity conditions.

When the first coat is touch dry, apply the second coat at right angles to the first. It is essential that the applied ARDEX WPM 300 is a continuous film and is free from pinholes, cavities or thin patches, otherwise additional applications may be necessary.

Allow the second coat to cure for 24 hours before applying ARDEX P 82 Primer, once cured ARDEX smoothing compounds. Care is necessary to ensure it is not damaged in any way during subsequent treatments

The primed ARDEX WPM 300 should be overlaid with 3mm, to a maximum 10mm, of an ARDEX Smoothing Compound to protect the film and to provide a uniform absorbent layer for subsequent floorcovering application with an appropriate ARDEX Flooring Adhesive.

ARDEX WPM 300 must not be trafficked between coats and before the primer, levelling and smoothing compound is applied. No more than five days should be allowed to elapse.

Do not exceed the maximum coverage stated.

To achieve a total dry film thickness of 200 microns; two coats, each at 150 microns thick as a wet film should be applied as both layers will eventually dry to 100 microns per layer.

The final coverage rate for all surfaces should be a total of 3m<sup>2</sup> per litre to achieve optimum properties. In the event that this coverage rate is not achieved in two coats, further coats should be applied to achieve a total uniform coverage rate of 3m<sup>2</sup> per litre.

A 10 litre kit will cover 60m<sup>2</sup> with the first wet 150 microns coat (100 microns dry coat). With the required two coats applied the coverage should not exceed 40m<sup>2</sup> per 10 litre unit.

**NOTE:** Coverage will depend upon the absorbency and texture of the substrate. The coverage figures stated assume a smooth, lightly shot blasted, power floated concrete slab as a substrate.

To ensure that the correct film thickness is achieved mark out the required area, 30m<sup>2</sup> and not exceeding 40m<sup>2</sup>. Ensure that the contents of the unit is spread uniformly over the area per coat.

The applied wet film thickness can be checked with a suitable wet film thickness gauge.

### PACKAGING

ARDEX WPM 300 is supplied in a 10 litre unit container. 10L kit (5L Part A & 5L Part B)

### STORAGE

ARDEX WPM 300 has a shelf life of 24 months when stored in the original, unopened packaging in a dry place at 23°C and 50% relative humidity.

### CLEANING TOOLS

Wash all equipment in water or soapy water immediately on completion.

### SMOOTHING AND LEVELLING

All ARDEX Levelling and Smoothing Compounds can be applied onto the dry ARDEX WPM 300 24 hours after the second coat, depending on drying conditions, following priming with ARDEX P 82. If a period of five days is exceeded, apply a further application of ARDEX WPM 300 prior to the primer and levelling compound.

It is absolutely essential that trafficking of the dried ARDEX WPM 300 is avoided, and the surface protected from any contamination prior to application of the subsequent primer and levelling compounds. Apply the required ARDEX Levelling Compound to a minimum of 3mm, maximum 10mm, and allow to dry.

**NOTE:** For the latest technical or health and safety information on this product, consult the current technical or health and safety datasheet online at [www.ardex.co.uk](http://www.ardex.co.uk)

# ARDEX WPM 300

## Two Component Residual Moisture Vapour Suppressant

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### TECHNICAL PERFORMANCE DATA

**Colour** White

**Finish** Semi-gloss going to matt with curing

**Volume** solids 44%

**Mixing ratio** 1:1 (Part A:/Part B) by volume

**Coverage** Must be applied at a rate of 3 m<sup>2</sup>/L in total (equivalent to two coats at 6 m<sup>2</sup>/L per coat) to achieve an effective moisture barrier

**Wet film thickness** 150 micrometers (0.15mm) per coat

**Recoat time** 4 hours @ 25°C and 50% R.H.

**Full cure** 7 days @ 25°C and 50% R.H.

**Pot life** 2 hours @ 25°C 1 hour @ 35°C

**VOC content** 26g/L

**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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ARDEX online:

[www.ardexbuildingproducts.ie](http://www.ardexbuildingproducts.ie)