



CI/SfB

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PRODUCT DATA SHEET

ARDEX DPM 1 C

One Coat Surface Damp Proof Membrane - Residual Moisture Suppressant

Features

Suppresses residual constructional moisture in all concrete slabs and cement/sand screeds

Apply ARDITEX, ARDITEX NA or ARDITEX RS PLUS* directly to ARDEX DPM 1 C without priming

Guarantees the early laying of all floorcoverings with the appropriate ARDEX smoothing compound and flooring adhesive

Use a thinner application for better coverage with Hygrometer readings of up to 85% RH

Easy to apply and fast curing

Can be used in conjunction with ARDEX Resin Systems

Available in 6kg, 10kg and 25kg units



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ARDEX DPM 1 C

One Coat Surface Damp Proof Membrane - Residual Moisture Suppressant

DESCRIPTION

ARDEX DPM 1 C is a one coat solvent free, low viscosity, two component epoxy resin, supplied in pre-gauged units of 6kg, 10kg and 25kg packs. After hardening the ARDEX DPM 1 C produces a membrane which can accommodate hygrometer readings up to 98% with high inherent and bond strength.

ARDEX DPM 1 C has excellent resistance to water, grease, oil, aqueous salt solution and dilute mineral and organic acids.

ARDEX DPM 1 C is a metallic grey colour.

USE

ARDEX DPM 1 C has been specifically developed to provide a DPM or to suppress residual moisture in concrete slabs and cement/sand screeds that are dense, well compacted and sound, where readings of up to 98% RH can be accommodated.

ARDEX DPM 1 C can be applied to give a dry film thickness of 250 microns where all surface moisture readings are below 85% RH. ARDEX DPM 1 C should be used at a dry film thickness of 350 microns where any surface moisture readings are between 85 and 98% RH.

MOISTURE TESTING

This should be undertaken in accordance with BS 8203.

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.

NOTE: We recommend that new concrete is lightly shot blasted.

For rough, uneven or porous surfaces consult the ARDEX DPM 2 Coat System Data Sheet.

Concrete curing agents, admixtures and surface hardeners and the residues of these products can impair adhesion and must be removed.

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 1 C. These joints must be treated with a flexible impervious jointing system and be carried through to the floor finish.

MIXING

In their original containers the resin and hardening agents are pre-gauged to the correct mixing ratio. The hardening agent (component B) is added to the resin (component A) and thoroughly mixed together with a spiral mixing paddle in a slow speed drill until a uniform colour and consistency is achieved. It is important that all the resin components have been mixed.

The ARDEX DPM 1 C is ready for immediate use and has a working time of 20 minutes at 20°C.

This is reduced at higher temperatures and extended at lower temperatures. At higher temperatures it is recommended that the ARDEX DPM 1 C is spread out immediately after mixing as the reaction is exothermic and the heat generated in the container will reduce the working time. Apply at temperatures above 10°C.

APPLICATION

Apply an even coat of the mixed ARDEX DPM 1 C by means of a suitable V shaped notched trowel. Whilst the ARDEX DPM 1 C 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 1 C.

Evenly spread one 10kg unit over one of the following areas dependant on film thickness required:

Film Thickness	Area
250 microns	25m ²
350 microns	18m ²

The applied film thickness can be checked with the ARDEX wet film thickness gauge.

It is essential that the applied ARDEX DPM 1 C is continuous and free from pinholes, cavities or thin patches, otherwise an additional application will be necessary.

COVERAGE

2.5m²/kg at 250 microns
1.8m²/kg at 350 microns

PACKAGING

6kg, 10kg and 25kg units of ARDEX DPM 1 C are 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).

STORAGE

Store in dry conditions. ARDEX DPM 1 C has a storage life of not less than 12 months in the original unopened containers.

CLEANING TOOLS

All tools should be cleaned before the ARDEX DPM 1 C cures.

SMOOTHING AND LEVELLING

Latex underlayment (ARDITEX, ARDITEX NA and ARDITEX RS PLUS*).

Apply either ARDITEX, ARDITEX NA and ARDITEX RS PLUS* smoothing compound to a minimum depth of 3mm, maximum 6mm to the cured ARDEX DPM 1 C and allow to dry.

***NOTE:** When applying ARDITEX RS PLUS on top of ARDEX DPM 1 C, this must be applied within 48 hours of the final cured coat of ARDEX DPM 1 C.

Self-levelling underlayment ARDEX K15, K70, K13.

Prime the cured ARDEX DPM 1 C with ARDEX P82 primer (consult Priming and Preparation leaflet) and allow to dry. Apply the required ARDEX levelling compound to a minimum of 3mm, maximum 6mm and allow to dry.

ARDEX K80 or thicker applications of underlayments.

Prime the cured ARDEX DPM 1 C with ARDEX R3E epoxy primer, blind the surface with ARDEX Fine Aggregate and allow to cure prior to vacuuming off the excess fine aggregate to leave a 'sandpaper' finish. Apply the ARDEX K80/SD-T B base mix or ARDEX levelling compounds in accordance with the relevant data sheets.

TECHNICAL DATA

Mixing ratio: Component A: Component B
3.45:1 by weight.

Density at 20°C: 1.54

Working Time: 20 minutes at 20°C

Over Coating if required: 6-8 hours at 20°C

Walkability at 20°C after 6 hours

PRECAUTIONS

The hardener which contains 4,4' - isopropylidenediphenol and amines is classified as corrosive and the epoxy resin which contains bisphenol A/F-epichlorohydrin, 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, if necessary, 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. In case of accidents seek medical advice.

Consult the relevant health and safety data sheets for full information.

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.