



CI/SfB

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BUILDING DIVISION
PRODUCT DATA SHEET

ARDEX DPM 1 C

One Coat Surface Damp Proof Membrane - Residual Moisture Suppressant

Features

Suppresses residual constructional moisture in powerfloated concrete slabs

Provides a surface damp proof membrane on powerfloated concrete slabs

Guarantees the early laying of all floorcoverings

Can accommodate Hygrometer readings up to 98% RH

Easy to apply

Fast curing

Can be used in conjunction with ARDEX Industrial Systems



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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. The units are supplied in 10kg packs consisting of approximately 7.8kg of resin (component A) and approximately 2.2kg of hardening agent (component B). After hardening the ARDEX DPM 1 C produces a membrane with high inherent strength and excellent 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 powerfloated concrete slabs where readings of up to 98% RH can be accommodated.

MOISTURE TESTING

This should be undertaken in accordance with BS 8203.

SUBSTRATE PREPARATION

The powerfloated concrete surface must be lightly shot blasted and be hard, sound and free of dust, laitance, dirt and other barrier materials such as paint, lime coatings, plaster and adhesive residues.

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 distribute one 10kg unit over a maximum area of 18m². The thickness of application should not be less than 350 microns per coat, this can be checked using the ARDEX wet film thickness gauge. Coverage of 1.8m²/kg should not be exceeded.

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

COVERAGE

Approximately 1.8m²/kg e.g. one 10kg unit will cover approximately 18m² in one coat.

PACKAGING

10kg 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).

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

Self-levelling underlayment

ARDEX K 15, K 70, K 13.

Prime the cured ARDEX DPM 1 C with ARDEX P 82 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 SD-T or thicker applications of underlayments.

Prime the cured ARDEX DPM 1 C with ARDEX R 3 E 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 SD-T/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 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, 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.