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PRODUCT DATA SHEET

ARDEX DPM 1 C R

Rapid Curing One Coat Surface Damp Proof Membrane and Residual Moisture Suppressant

Features

- Can be used where no DPM is present or it is ineffective
- Suppresses residual constructional moisture in all concrete slabs and sand cement screeds
- Rapid drying – overcoat at 4 hours at 20°C
- Apply ARDITEX, ARDITEX NA or ARDITEX RS PLUS* directly to ARDEX DPM 1 C RAPID without priming
- Guarantees the early laying of all floorcoverings with the appropriate ARDEX smoothing compound and flooring adhesive
- Can accommodate Hygrometer readings up to 98% RH, including rising moisture
- Easy to apply and fast curing
- Can be used in conjunction with ARDEX Resin Systems
- Available in 6kg and 10kg units

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | OHSAS 18001 Occupational Health and Safety Management

Reg No. FM 01207 EMS 565427 OHS 628374

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ARDEX DPM 1 C R

Rapid Curing One Coat Surface Damp Proof Membrane and Residual Moisture Suppressant

DESCRIPTION
ARDEX DPM 1 C R is a rapid drying damp proof membrane that can be overcoated after 4 hours, it is a one coat rapid drying two component epoxy resin, ideal for fast track installations. ARDEX DPM 1 C R is supplied in pre-gauged units of 6kg and 10kg packs.

After hardening the ARDEX DPM 1 C R produces a membrane which can accommodate hygrometer readings up to 98% with high inherent and bond strength. ARDEX DPM 1 C R has excellent resistance to water, grease, oil, aqueous salt solution and dilute mineral and organic acids. ARDEX DPM 1 C R is a metallic grey colour.

USE
ARDEX DPM 1 C R 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 R 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 R 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 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 smoothing compounds and adhesive residues.

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 R. 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. As ARDEX DPM 1 C R 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 R 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 R by means of a suitable V shaped notched trowel. Whilst the ARDEX DPM 1 C R 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 R.

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

Film Thickness	*Area*
250 microns	25m²
350 microns	18m²

The applied film thickness can be checked with the ARDEX wet film thickness gauge. It is essential that the applied ARDEX DPM 1 C R 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 and 10kg units of ARDEX DPM 1 C R 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 R 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 R cures.

SMOOTHING AND LEVELLING
Latex underlayment (ARDITEX, ARDITEX NA and ARDITEX RS PLUS).* Apply either ARDITEX, ARDITEX NA and ARDITEX RS PLUS smoothing compound directly to the cured ARDEX DPM 1 C R to a minimum depth of 3mm, maximum 6mm and allow to dry. ***NOTE:** When applying any ARDITEX underlayment on top of ARDEX DPM 1 C R, this must be applied within 16 hours of the final cured coat of ARDEX DPM 1 C R. If this time exceeded then prime with ARDEX P 82 or ARDEX P 4 primers and treat following the ARDEX K 15 new notes below.

Self-levelling underlayment
ARDEX K 15, K 15 New, K 13, K 11, A 55. Prime the cured ARDEX DPM 1 C R with ARDEX P 82 or ARDEX P 4 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 K 80 or ARDEX SD-TB applications of underlayments.
Prime the cured ARDEX DPM 1 C R 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 K 80/SD-T B base mix or ARDEX levelling compounds in accordance with the relevant data sheets.

TECHNICAL DATA

Density at 20°C:	1.54
Working Time:	20 minutes at 20°C
Over Coating if required:	4 hours at 20°C

PRECAUTIONS
The hardener may cause sensitisation by contact. Harmful in contact with the skin and if swallowed. During mixing and application 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. 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.

TECHNICAL ADVICE HELPLINE
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