PRODUCT DATA SHEET
Centrecoat
Armourcoat Epoxy DPM

Description

Centrecoat Armourcoat DPM is a 2 part solvent free, liquid applied surface damp proof membrane and residual moisture suppressant. After curing, DPM provides a surface membrane with excellent adhesion to damp concrete and polymer modified sand/cement screeds. Hygrometer readings up to 98% RH as measured in accordance with BS 8203:2001 can be accommodated.

Armourcoat DPM has been designed for use as a coating over cementitious surfaces which possess high levels of residual moisture. This practice should only be adopted subject to a survey confirming adequate underlying ground stability. Moisture testing should be carried out in accordance with BS 8203. Armourcoat DPM permits early overlaying with vinyl, carpets and resin based products without the conventional “drying out” period being observed. This product is not suitable for use over underfloor heating systems.

Colour

Available in red and yellow as a visual aid for application and coverage.

Application / Substrate Conditions

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm2) with a minimum pull off strength of 1.5 N/mm2. Ideal ambient and substrate temperature is 15 - 25°C to achieve best results. Localised heating or cooling equipment may be required outside these parameters. The substrate & uncured floor must be kept at least 3°C above the dew point to reduce the risk of blooming or condensation on the surface for at least 48 hours after application.

Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings or flow-applied systems, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light vacuum contained shot-blasting is therefore preferred over planning where these types of finishes are specified. Percussive scabbling or acid etching is not recommended for any grade of resin flooring.

Movement Joints

Movement joints and cracks cannot be bridged with Armourcoat DPM. These should be filled with a flexible jointing material.

Hydrostatic Pressure

Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided e.g. by direct drainage.

In new construction, for concrete bases in contact with the ground, a damp-proof membrane should be incorporated into the slab design, in accordance with the requirements of CP102, in order to prevent ground moisture adversely affecting the resin flooring. In the case of basement floors in contact with the ground, the provisions of BS8102 should be followed.

Mixing

Armourcoat DPM is a two component product. Fully drain the contents of the hardener component into the lightly coloured resin component and mix thoroughly with a slow speed electric stirrer fitted with a spiral paddle, for a minimum of 3 minutes until homogeneous.

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Apply evenly using a notched trowel (1.5mm x 5mm V shaped) and flatten out the ridges with a pre-wetted out short pile roller whilst wet. Do not exceed the coverage rate of 4m2 per Kg under any circumstances. It is essential that each coat should be no less than 200 microns in thickness which should be checked using a wet film thickness gauge. Records of these measurements should be kept.

Apply a second coat once cured at right angles to the first, It is essential that Armourcoat DPM is pin-hole free and continuous with absolutely no gaps or cavities. If this is not the case, an additional coat should be applied. If a sand scatter is required for key or profile, this should be applied to a third coat of Armourcoat DPM.

Technical Data

- Thickness: 450 microns (two coat system)
- Abrasion Resistance (EN 13892-4): AR 0.5
- Abrasion Resistance (BS 8204-2) Special Class BRE Screed Test Category A
- Adhesive Strength to Concrete (BS EN13892-8:2002):
  - Dry Concrete > 1.5 MPa
  - 7 Day Old Saturated Surface Dry Concrete: 3.2 MPa
- Moisture Vapour Transfer Rate: 5g/m2/day
- VOC: 156g/l

- The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field applied samples may vary dependent upon site conditions.

- Pot Life: 30 minutes at 20°C
- Overcoatable: 16 to 48 hours at 20°C

Coverage Rate

4m2 per Kg per coat. A minimum of two coats are required. Coverage will be reduced by rough, porous substrates and more material may be required to achieve the minimum wet film thickness requirements.

Storage

Store off the ground in unopened packs in a dry store, under cover between 10 - 30°C out of direct sunlight. Protect from frost.

Shelf Life

12 months if stored in accordance with the above recommendations.

Packaging

Available in 5 Kg

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >90% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <5°C during the application or within the curing period. The design strength of concrete surfaces must be a minimum of 25MPa compressive strength at 28 days. The manufacture of Armourcoat DPM is a batch process and despite close manufacturing tolerances, colour variation may occur between batches.