



1-COAT DPM



Issue – 01-1/0618



- **Fast-curing can receive smoothing compounds in 4 – 5 hours.**
- **For cementitious substrates with relative humidity of up to 98%**
- **Fully cured within 8-11 hours**
- **Can be used to seal cracks & seams in damaged floors**
- **Suitable for use with underfloor heating systems**
- **Recommended where no structural DPM is present (2 coats)**

Description:

PALACE 1-COAT DPM is a single coat application, two component surface damp proof membrane and vapour suppressant supplied in an easy to mix Dual Chamber pack based upon a solvent free epoxy resin formulation, suitable for interior and exterior applications. It can be laid over a wide range of substrates including concrete, sand/cement screeds, anhydrite and calcium sulphate screeds. **PALACE 1-COAT DPM** is ideal for use as a damp proof membrane where the residual moisture content in a new or existing screed is up to 98% relative humidity (RH). **PALACE 1-COAT DPM** can also be used to protect screeds laid on damp floors where no pre-existing damp proof membrane is in place or where the structural damp proof membrane is ineffective. Once cured, **PALACE 1-COAT DPM** produces a membrane which can accommodate hygrometer readings up to 98%RH on cement-based screeds & still demonstrate bond strength issues. **PALACE 1-COAT DPM** has good resistance to water, grease, oil, dilute mineral and organic acids.

Surface Preparation:

All surfaces must be sound, clean and free from grease, oil, dirt or other contaminants. Any release agents and any wax/resin based concrete curing compounds should be removed prior to application. Existing screed or levelling compounds which are not resistant to moisture should be removed prior to application of the membrane. Where any doubt exists, a trial adhesion test is recommended.

Always pre-check the floor using a suitable moisture meter to determine that Relative Humidity (RH) readings are less than 98% RH. **PALACE 1-COAT DPM** is suitable for use with underfloor heating systems, however the surface temperature should not exceed 27°C in accordance with BS 8203 and BS 5325. When laying **PALACE 1-COAT DPM** over a new underfloor heated screed, the heating system must be turned off 48 hours before application. Any existing floor screeds, coatings or adhesive residues that are not moisture tolerant must be removed prior to application and any incompatible curing agents and surface contaminants may require mechanical techniques i.e. Scarification or 'shot blasting' to remove them whilst it will also be necessary to shot blast highly polished substrates. Residual dust should be removed by industrial vacuuming techniques. Rough or uneven substrates can be pre-smoothed with **PALACE FLOW LEVEL** prior to the application of **PALACE 1-COAT DPM**

Movement Joints: Any joints in the floor such as movement joints, must not be bridged using **PALACE 1-COAT DPM** since they will require treatment using a flexible impervious jointing system and be carried through to the floor finish.

Mixing:

Before mixing allow the 'dual-chamber' pack to attain room temperature, these are typically ambient temperatures of +10oc to +25oc as lower temperatures will raise the viscosity of the product and higher temperatures will result in a significant reduction in pot life. Puncture through the centre of the lid and through the centre of the floor of the upper chamber using a long screw driver or similar, then allow the contents of the upper chamber to drain into the lower chamber. Remove the upper chamber and mix the two components in the lower using a slow speed paddle stirrer to mix the resin and hardener. Mix both components for at least 2 minutes with a drill or similar, until an even colour is achieved. Always mix full container quantities in order to maintain mix proportions.

Application:

Once mixed, **PALACE 1-COAT DPM** must be poured onto the floor immediately. If mixed and left in the container for a prolonged period of time, the working time will be significantly reduced. Apply **PALACE 1-COAT DPM** onto the prepared substrate in an even coat using a 2mm x 5mm V profiled notch trowel. Whilst the coating is still wet the serration marks should be smoothed using a short pile paint roller charged with **PALACE 1-COAT DPM**. Ensuring that the applied coating is continuous and free from pin holes. The application thickness should not be less than 250—350microns. When applying **PALACE 1-COAT DPM** to a substrate where a structural damp proof membrane is not present or is ineffective, this product must be applied as a 2-coat system. **PALACE 1-COAT DPM** should not be applied when ambient or substrate temperature is less than 5°C or likely to remain so for the following 24 hours.

Curing time:

Under ambient conditions, **PALACE 1-COAT DPM** is ready to receive a smoothing compound as soon as 4 - 5 hours after application. If the applied DPM is still very tacky, this indicates that the DPM has not fully cured and additional curing time should be allowed before covering with a levelling screed.

Coverage:

Approximately 2-2.5m²/kg depending on application and substrate conditions to give a finished thickness of approximately 250-300 microns. NOTE: It is essential that the applied **PALACE 1-COAT DPM** achieves a 100% continuous film free from pinholes, or gaps, which can occur on porous screeds for example, in this case an additional application, may be necessary.

Storage & packaging:

Keep this pack sealed and in temperatures between +5°C and 30°C. Always ensure good stock rotation. Storage life 6 months under normal warehouse conditions. Available in 5kg 'Dual-Chamber' Buckets.

Technical Data:

- **Pot-life:** Approximately 1 hour at 20°C
- **Initial Cure Time:** 5-6 hours @20°C or 15-20 hours @10oC
- **Dry film Thickness:** 250-300 microns
- **Service Temperature Range:** -20oC to +80oC
- **Chemical Resistance:** Good
- **Water Resistance:** Excellent

Health & Safety:

Care should be taken to avoid skin/eye contact. Wear gloves and protective clothing. Harmful if taken internally. Keep containers properly closed when not in use. Adequately ventilate the working areas. Guard against naked lights and smoking. Full Health & Safety data sheets available on request

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However, it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.



PALACE CHEMICALS Ltd

Speke Hall Industrial Estate,
Speke, Liverpool; L24 41YA
Tel: 0151 486 6101 – Fax: 0151 448 1982
e-mail: sales@palacechemicals.co.uk

EN ISO 14001



EMS 85778

EN ISO 9001



FM 01010

EN ISO 18001



OHS 596309