

Data sheet B748

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Dustseal

Introduction

Dustseal is a 2 part water dispersible epoxy floor coating which prevents dusting and provides an easily cleaned glossy surface.

Dustseal exhibits outstanding adhesion to most substrates, and has excellent resistance to water and many chemicals, including salts, alkalis, detergents, oils, fats, hydraulic fluids and diesel fluid.

Dustseal will resist solvents such as white spirit, petrol and kerosene, but has limited resistance to the more powerful solvents e.g aromatic and chlorinated hydrocarbons, ketones etc.

It is essential that good house-keeping practices are maintained at all times to maximise the performance of **APML Resin Flooring Systems**.

Uses

- & Warehouses
- & Garages, including workshops
- & Electronic industry floors
- & General light duty industrial floors
- & Pharmaceutical industry floors

Advantages

- & Water-based
- & Continuous coating with no vulnerable joints
- & Pre-packed units
- & Handy size - easily stored
- & Prevents dusting of concrete
- & Easily cleaned

Method of Use

Storage

All materials must be stored prior to use under cover, preferably in a dry heated store. Materials stored at low temperatures (below 10°C) become more viscous and thus difficult to mix and apply. Do not store below 5°C.

If crystals are observed due to low temperature storage, contact APML Technical Sales Department.

Surface Preparation Concrete and Sand/Cement Screeds

Where rising damp is likely to be a problem, an efficient damp proof membrane should be installed beneath the concrete screed.

New Floors

New concrete floors should be **thoroughly dry** (moisture content not higher than 5% measured at a depth of 20mm with a Protimeter "Concretemaster") and fully aged before any work is commenced i.e. 28 days.

The surface must be free from laitance and non-polished. A lightly textured surface similar to medium sandpaper is recommended.

If it is necessary to remove laitance this should preferably be done by grit-blasting or grinding. Alternatively **PML Etch** may be applied in accordance with Data Sheet No. 608.

Very smooth and dense floors - i.e. those which have been power floated - may need to be grit-blasted or ground in order to remove surface polish and provide the necessary texture.

It is essential that any dust created during preparation is completely removed with an industrial vacuum cleaner.

Proprietary floor sealers of the silicate or silicofluoride type **must not be used** prior to application of **Dustseal**.

Old Floors

All traces of oil, grease or other contaminants must be removed.

The following alternative methods may be used, in order of preference:-

- (a) Grit-blasting, mechanical grinding.
- (b) High pressure hot water cleaning using heavy duty detergent followed by **thorough** rinsing with clean water.
- (c) Mechanical scrubbing with a heavy duty detergent or proprietary floor cleaner followed by **thorough** rinsing with clean water.

After cleaning by methods (b) and (c) above, apply **PML Etch** in accordance with Data Sheet No. 608.

After finally washing down, the floor must be allowed to dry **thoroughly** before applying **Dustseal**. The use of hot air blowers will be beneficial.

Caution: where silicate or silicofluoride sealers or any type of surface coating have been used it is essential that these are first removed by method (a) above before applying **Dustseal**.

Certain types of coating may be difficult to remove by grinding and in such cases the **APML Technical Sales Department** should be consulted for advice.

Ambient Temperature

The ambient temperature should be at least 10°C during application and curing. If necessary heating should be applied sufficiently in advance of the time of application to ensure that the temperature of the floor and surrounding air is at least this level before commencing work.

Application of Dustseal

Slowly add all the Part B Component to the Part A component with continuous stirring. Manual stirring with a flat bladed implement is possible, however the use of a slow speed electric drill fitted with a mixing paddle is preferred. Thoroughly scrape the sides and base of the container to ensure that no traces of unmixed material remain. Mix until a uniform consistency is obtained.

Once Parts A and B have been thoroughly mixed, slowly add, with continuous mixing, up to 1.5 litres (1.5 kg) of clean water. Ensure complete mixing.

Place mixed **Dustseal** in a suitable paint tray or box.

Apply by lambswool or long pile synthetic fibre roller suitable for rough surfaces. Immerse the roller and squeeze out excess material as in normal painting practice. Apply in uniform strokes in one direction, avoiding the use of excess material.

Note: Do not pour material on the floor and then spread, as this will lead to reduced coverage and may give a 'patchy' appearance.

Allow the first coat to set (16 - 24 hours depending on temperature) before applying a second coat.

Cleaning

All tools and mixing vessels should be cleaned immediately after use with water.

Technical Specification

General data for guidance purposes only
(Approximate figures)

| | |
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| Packing | 3.5 kg |
| Coverage | 20m ² per pack for 2 coats depending on surface porosity. These figures are quoted as a guide to cover the majority of surface conditions. With screeds of exceptionally high porosity the coverage may be reduced. If in doubt, a test area should be applied. |
| Pack volume (as supplied) | 3.3 litre |
| Volume solids (as supplied) | 53% |
| Dry film thickness (2 coats, non-absorbant surface) | 85 - 90 microns |
| Pot life (15°C) | 1.5 hours |
| Cure time | 36 hours to accept light traffic. 3 - 4 days maximum mechanical and chemical resistance. |
| Shelf life | 12 months minimum |
| Storage conditions | Minimum temperature 10°C Maximum temperature 50°C |

Physical Properties (Approximate figures)

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|---------------------|---|
| Abrasion resistance | Withstands light trucking and foot traffic |
| Adhesion | Excellent adhesion to concrete provided that the surface is adequately prepared |

Health and Safety

This product contains substances that are classified as hazardous according to the Chemicals (Hazard Information and Packaging for Supply) 1994 (as amended). The product is labelled in accordance with these regulations and further information regarding health hazards, handling, storage etc. is detailed in the Material Safety Data Sheet(s). In addition to considering the advice given by APML Ltd., all users must conform to the Control of Substances Hazardous to Health Regulations, 1988 (as amended).

All coverages and thicknesses quoted are nominal and will be affected by substrate profile and porosity.

The information in this Data Sheet, given in good faith, is based on results gained from experience and tests. Since application and use are beyond our control, no condition or warranty is given covering the results from the use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept any responsibility for any loss or damage, howsoever caused arising from the said use.