

Data sheet C675

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Corroproof Epoxy Screed Primer

Introduction

Corroproof Epoxy Screed Primer is a specially formulated coating developed as a primer for:-
Corroproof Epoxy Screed (Data Sheet No. C680)
Corroproof Epoxy Floor (Data Sheet No. C734)
Ceemarfloor HD - (Corroproof) (Data Sheet No. C657)
Corroproof Epoxy Concrete (Data Sheet No. C712)

Unlike many primers of this type it is a free flowing liquid which can be easily applied by brush or lambswool roller.

Corroproof Epoxy Screed Primer consists of an epoxy resin and hardener system which can also be used for bonding glass fibre scrim inside tanks and bund areas providing a resinous coating which is resistant to a wide range of chemical re-agents. APML Technical Sales Department should be consulted for specific advice.

For situations where freedom from taint during application is essential - e.g. food industries, dairies, etc - use PML Epoxy Screed Primer - Low Odour (Data Sheet No. C611).

Corroproof Epoxy Screed Primer is supplied as a 2 part pack consisting of factory pre-weighed base and hardener components.

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

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

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 eg. 28 days.

The surface must be free from laitance and non-polished. A wood float finish is ideal.

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 coarse ground in order to remove surface polish and provide the necessary open 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 Corroproof Epoxy Screed Primer.

Old Floors

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

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

- Grit-blasting, mechanical grinding or planing.
- High pressure hot water cleaning using heavy duty detergent followed by thorough rinsing with clean water.
- 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 Corroproof Epoxy Screed Primer. 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 Corroproof Epoxy Screed Primer.

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 a minimum of 10°C and preferably at least 15°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.

Priming

Thoroughly mix the two components together with a palette knife, flat piece of wood or preferably a slow speed drill fitted with a mixing paddle. Apply the mixed material with a lambswool or long pile synthetic fibre roller. Cut in any edges etc. by brush. Spread uniformly over the prepared surface ensuring the substrate is well 'wetted'. Do not apply excess primer or allow the primer to pond as this will cause difficulties during application of the screed.

A 2 kg pack of Corroproof Epoxy Screed Primer will cover 7 - 9m² depending on porosity and/or profile of the surface.

Bonding glass fibre scrim:

- a Apply a thin uniform coat of Corroproof Epoxy Screed Primer, mixed as described overleaf, to prepared surfaces and allow to set. This will seal porous surfaces prior to the application of subsequent coats.
- b Apply a second coat of Corroproof Epoxy Screed Primer and whilst still wet apply a layer of glass fibre scrim approximate weight 175 g m² pressing down onto the surface using a laminating roller.
- c Apply a third coat of Corroproof Epoxy Screed Primer to the scrim of sufficient depth to seal off the surface.
- d If more than one layer of glass fibre is to be applied the process should be repeated from (b) onwards until sufficient layers are obtained.

Corroproof Epoxy Screed Primer may be applied by either a stiff brush or lambswool roller, depending on the surface conditions, but ensuring that each coat gives a complete coverage.

Note: Do not allow the Corroproof Epoxy Screed Primer to set for more than 18 hours before applying any subsequent layer.

Cleaning

All tools and mixing vessels should be cleaned immediately after use with PML Resin Cleaner (Data Sheet No. 610) acetone or similar solvents.

Technical Specification

General data for guidance purposes only
(Approximate figures)

Packing	2 kg pre-weighed packs
Density of mixed primer	1.15 kg/litre
Volume of pack	1.74 litres
Coverage per pack	Approximately 7-9m ² depending on porosity of surface
Pot life	1 - 2 hours (depending on conditions)
Cure time at 15°C	Approximately 12-18 hours
Shelf life	12 months minimum

Thermal Properties (Approximate figures)

Maximum service temperature	60°C Continuous 90°C Spasmodic
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Chemical Resistance

APML Flooring systems are resistant to the effects of a wide range of chemicals however it is important that advice is sought from the APML Technical Sales Department before the product is specified.

Health and Safety

This product contains substances that are classified as hazardous according to the Classification, 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, all users must conform to the Control of Substances Hazardous to Health Regulations, 1994 (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.