

# Protect

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# JOHN LORD

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## No.3 High Build, Water Dispersed Epoxy Floor Coating and Primer

Protect No. 3 is a two component, solvent free water dispersed epoxy resin based floor coating with a 60% solids content providing a dry film thickness of approximately 100 microns per coat when applied at 6m<sup>2</sup> / Ltr. Protect No. 3 is a light/medium duty floor coating and primer system, which has been specifically formulated to penetrate into the concrete substrate prior to overlaying with Protect No.2, Uragard SL and Uragard MT(F) floor finish systems.

Protect No. 3 is specifically formulated as an environmentally friendly high build floor coating / primer system and is based upon modern water based epoxy technology. Offered as a new generation epoxy coating system in areas where no permissible solvent odours are allowed, because of this products uniquely environmentally friendly characteristics clean down of mixing / application equipment can be utilised by clean water and mild water miscible detergents, thus ensuring that taint risk issues are eliminated.

Protect No. 3 is recommended for almost any industry where medium / long term economical protection is required and where substrate porosity needs to be sealed effectively, prior to overlaying with Protect No.2, Uragard SL and Uragard MT(F) floor finish systems.

Potential application include; Chemical processing, Garage workshops, food processing, production areas, breweries, warehousing, electronic manufacturing, walkways, pharmaceuticals and showrooms.

To provide a uniform semi-gloss smooth finish as a coating system we recommend that 2 or 3 coats (depending on substrate porosity) are roller applied. The primer coat system prior to overlaying with Uragard SL and Uragard MT(F) is achieved by broadcasting silica sand (0.4 - 0.7mm) at a rate of 0.5 - 1.0 kg/m<sup>2</sup>. Two coats are usually required prior to overlaying to ensure substrates are effectively sealed. Otherwise 1-2 coats of Protect No. 3 is usually required prior to overlayment with Protect No. 2.

Protect No.3 is colour stable and is available in the full BS4800 and RAL range of colours. Experience gained in the field by our own Contracts Department has assisted considerably in the development of this product.

There is no substitute for experience both in terms of substrate preparation and application techniques. John Lords experience in providing Chemical and Abrasion resisting finishes spans over 100 years. Our Sales Dept. will be pleased to submit estimates for applying PROTECT No. 3.

### Specification

Protect No. 3 comprises of a water based epoxy hardener (to maximise penetration and adhesion) reacted with a epichlorohydrin bisphenol A Base to provide solvent free build coats. The application of the system is normally completed at a rate of 1 coat per day, and it will accept foot traffic after overnight drying at 20°C.

### Surface Preparation

Ensure all surfaces are clean, dry, and free of oil, grease and other contamination. New concrete must be thoroughly cured and not subject to ongoing rising moisture and or osmotic activity. Concrete moisture content monitoring can be carried out using Hair Hygrometers to recommendations laid down in B.S. 5325:1996 & B.S. 8203:1996. John Lord can undertake such monitoring as part of any installation service. The surface of the concrete must be either mechanically ground or shot blasted to remove all surface laitance from new concrete. All traces of old floor paint and or all contaminants such as general grime, oil, greases or other foreign matter can be effectively removed by mechanical means as described above, or by other preparation techniques such as through detergent washing or hot compressed air treatment. We strongly recommend consultation with the technical department of John Lord prior to commencement.

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## Application

Best results achieved with good quality, solvent resistant, short pile rollers such as mohair or synthetic mohair. On irregular surfaces and for priming, medium and long pile rollers are preferred. Brush application is only recommended for "cutting in" and small areas. If temperatures dictate, an addition of approximately 2% water can be added to the build coats, to ease application.

## Properties:

Appearance - Semi Gloss

Pot Life - Up to 1 hour at 20°C, pour mixed material into a shallow roller tray to reduce effect of bulk exotherm.

Spreading Rate

Sealer Primer 6m<sup>2</sup> per ltr per coat.

Build Coats 6m<sup>2</sup> per ltr per coat.

## Commissioning

Foot traffic Overnight @ 20°C

Medium traffic 48 hours @ 20°C

Heavy traffic 5 Days @ 20°C

Full Chemical Cure 7 Days @ 20°C

Chemical Resistance Indicator

Protect No3 provides an effective resistant barrier to the following chemicals;

Ammonia, Caustic Solutions, Mineral Acids

Fuel Oils, Salt Solutions, Organic Acids (Except Acetic)

Lube Oils, Solvents (aliphatic), Wine/Beer

Mineral Oils, Solvents (aromatic)

Suitability depends upon concentration and temperature please consult John Lord Technical for confirmation

## Health and Safety

It is recommended that the clients and other site operatives be advised of Health and safety considerations when coming into contact with uncured Epoxy resin. Operatives not familiar with floor laying practices, should be prevented from venturing near storage, mixing and laying areas. However, should the Protect No. 3 system come into contact with the skin it must be removed, with either resin removal cream or by thorough washing with soap and water. Should accidental eye contamination occur, wash well with water or eye wash solution and seek medical advice. If swallowed seek medical attention. For further health and safety information on this product see our separate health & safety and COSHH documents or consult our technical service department.

## John. L Lord Quality Service:

John Lord manufactures products for the protection of floors, walls, tanks, structural steelwork etc. We also have our own Contracting Department employing skilled operatives with long-term experience in the application and laying of our protective systems. Both operations are backed up by Comprehensive Technical, Advisory and Supervisory Services which are available to assist the client and Architect in drawing up specifications, planning and expediting contracts. This total control and our 100 years experience enables us to ensure quality!

## Disclaimer:

The information contained in the leaflet is provided as an introduction to the system and no guarantee is implied. Any specific requirements the client may have should be discussed in detail with John Lords Technical Department before hand; John Lord cannot accept any responsibility for work and the subsequent performance of their systems not controlled by their own Contracting Services.

John Lord reserves the right to alter information contained in this leaflet without prior notification.

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