

# Protect

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## No.5 Water Based Epoxy Coating

### DESCRIPTION

Protect No. 5 is a water dispersed epoxy resin based wall and floor coating system which meets the demand for more ecologically sympathetic building products. Protect No. 5 contains no solvents and is therefore non-flammable, non-tainting and low odour.

### ADVANTAGES

The extensive qualities ensure first class protection of cementitious and other mineral substrates. Protect No. 5 is ideal for use as a protective coating to walls and floors in many industrial applications particularly in the Food and Beverage industry where risk of tainting must be avoided. The cured film exhibits good chemical and abrasion resistance allied to excellent substrate adhesion and colour stability.

On walls and structural steelwork Protect No. 5 can be applied over air-drying alkyd systems, to upgrade chemical and abrasion resistance.

### SURFACE PREPARATION

Surface to be overcoated should be structurally sound, clean and free of standing water. Cured concrete should be mechanically ground or fine shot blasted, to remove laitance and or surface contaminants. Deposits of oil, grease or other contaminants should be removed by thorough cleaning with a suitable detergent and or hot compressed air treatment. Defects in concrete such as impact damage, shuttering voids or blowholes should be repaired prior to application with Epigard ES100 or Rizistalcrete.

Wall surfaces of Brick, block work or plaster should be sanded or wire brushed to remove cement spillages, salts etc.

### APPLICATION

Protect No. 5 is supplied as a two component pack. Parts A and B should be mixed together thoroughly, ideally with a low speed drill and mixing paddle. Each component should be checked prior to mixing for slight

settlement, if found, mix each component individually prior to mixing together. To the mixed components, the blend is thinned with an addition of at least one litre of clean water. Protect No. 5 can be applied by roller, brush or spray. For spray application use airless spray at a pressure of at least 150 bar, nozzle size 0.66mm.

### PACKAGING

Protect No. 5 is supplied as a four litre concentrate of Base and Hardener components. On mixing, the blend is thinned with at least a litre of clear water to achieve the optimum application consistency. The first coat may require further thinning depending upon substrate porosity.

### SPECIFICATION

For normal surfaces of low porosity a two-coat application is sufficient. However, in cases of higher porosity three coats should be applied. Where lighter colours are to be applied, a third coat is recommended to ensure good opacity.

### COVERAGE

Dependant on porosity, condition and profile of substrate, 6-8 sq.m./kg per coat.

### TECHNICAL DATA

Maximum relative humidity: - 70%  
(Do not apply externally or in situations of high humidity)  
Application temperature range: 10°C to 30°C  
Maximum intercoat period: 12 – 18 hours  
Recommended number of coats: 2 or 3 depending on substrate porosity  
Temperature Resistance: 65°C

Cure times @ 20°C

Initial cure: 12-18 hours  
Light traffic: 24 hours  
Full cure: 7 days

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## CHEMICAL RESISTANCE

Based on three-coat application, Protect No. 5 has a good resistance to intermittent exposure from a wide range of chemicals. Typically, fuel oils, soap and detergents, weak concentrations of purging and sanitizing solutions. Glycerine, brine, blood and animal fats.

Protect No. 5 is not resistant to solvents.

The above information is offered for guidance only; in-service conditions can affect long-term resistance. Consultations with our Technical Department must be sought prior to application.

## COLOUR

Protect No. 5 can be supplied in most colours to RAL & BS4800. Special colours can be produced upon request, based on quantity.

## HEALTH AND SAFETY

Protect No. 5 must not be allowed to come into contact with foodstuffs. All skin contact from uncured material should be avoided. The use of protective clothing, goggles, barrier creams and particularly rubber gloves are required when applying Protect No. 5. After contact with the skin, wash thoroughly with soap and water, or by using a resin removing cream. In case of accidental

eye or mouth contact, flush with water- seek medical attention immediately. Ensure adequate ventilation of the working area.

The John Lord Health and Safety guide provides all necessary information and data in relation to Health and Safety and C.O.S.H.H. (Control of Substances Hazardous to Health).

## TECHNICAL SERVICE

John Lord provides technical service and back up in all matters relating to technical specification and installation procedures.

## DISCLAIMER

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

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

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