

Protect

CI/SfB	(43)	Yt	

JOHN LORD

MSDS ISSUE 1/1/11/02

No.6 Abrasion Resistant Heavy Duty Epoxy Coating

DESCRIPTION

Protect No. 6 is a solvent free, high build heavy duty coating system designed to protect areas of concrete or steel which are subject to wet and or dry abrasion. The epoxy resin binder and specially selected inert fillers have been designed so as to be tolerant of surface moisture and relatively low standards of surface preparation. The solvent free nature of the system enables application in confined areas without risk and results in fast curing to enable rapid re-commissioning of plant and services. Protect No. 6 also has excellent resistance to a wide range of acid, alkalis and some solvents.

The system requires a minimum of 2 coats, ensuring dry film thicknesses of 250 microns.

Application of the Protect No. 6 system is by brush or roller.

SURFACE PREPARATION

Concrete: 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 laitence from new concrete. All traces of old floor paints and or all contaminants such as general grime, oils, greases or other foreign matter can be effectively removed by mechanical means as described above, or by other preparation techniques such as thorough detergent washing or hot compressed air

treatment. We strongly recommend that you contact our Technical Department concerning all aspects of substrate preparation.

Steel: Ensure surfaces are free of oil and grease. Small localised contamination can be removed by wiping with Rizistal Thinners No.1 (observing all necessary Health and Safety Precautions). If widespread prepare by shot blasting or grit blasting. Remove all corrosion by chipping, scraping, wire brushing or other mechanical means.

Ideally, the substrate should be prepared to Swedish Standard ST2 or ST3 SIS 05-5300-1967. All preparatory debris should then be removed by vacuuming, compressed air or dry brushing.

APPLICATION

Best results are achieved with good quality, solvent resistant, medium pile rollers such as mohair or quality and durable paintbrushes. Component A is the epoxy resin base; Component B is the activating curing agent. Add curing agent to the base tin and mix thoroughly. Mix by hand or ideally with a low speed drill and paddle. Use within 45 minutes of mixing. Care should be taken to ensure coating is not spread too thinly, although the physical characteristics of Protect No. 6 do not encourage such a practice.

COLOUR

Protect No. 6 can be supplied in most colours to BS4800. However, due to the relative lack of colour stability in the curing agent component, only darker shades of colours are recommended.

Since 1901

P
R
O
T
E
C
T

PROPERTIES

Appearance :	Deep gloss
Pot Life :	Approx 45 mins @ 20°C (Only mix in useable quantities. Decant mixed material into a shallow roller tray to reduce effect of bulk exotherm).
Consistency:	Thixotropic brushing grade.
Commissioning:	Overcoating 4 hours @ 18°C Touch dry 5 hours @ 18°C Recommissioning 6-7 hours @ 18°C
Coverage:	14m ² per 2 ½ litre pack @ 150 microns dry film thickness/coat.
Cleaners:	Rizistal Thinners No. 4
Resistance to:	Taber Abrader, 200-250
Abrasion:	mg/cycle weight loss.
Coefficient of Friction:	0.4
Specific Gravity:	1.5 (mixed system)

Chemical Resistance Indicator:

Protect No.6 provides an effective, resistant barrier to the following chemicals;

Ammonia
Caustic Solutions
Mineral Acids
Fuel Oils
Salt Solutions
Organic Acids
Lube Oils
Solvents (aliphatic)
Wine/Beer
Mineral Oils
Solvents(aromatic)

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.

PRECAUTIONS

Health and Safety: Protect No. 6 should not come in contact with the skin and eyes or be swallowed. Avoid inhalation. Harmful effects may be caused during application and cure.

Some people are sensitive to epoxy resins and hardeners. Gloves, goggles and barrier cream such as Kerodex Antisolvent or Rozalex Anti-paint should therefore be used. Ensure adequate ventilation. If mixed resin comes into contact with skin it must be removed before it

hardens with a resin removing cream such as Kerocleanse Standard Grade Skin Cleaner or Rozaklens Industrial Skin Cleaner, followed by washing with soap and water. **DO NOT USE SOLVENT.** Contamination of skin with any of the above component products should be removed immediately with soap and water.

Should accidental eye contact occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately – **DO NOT INDUCE VOMITING.**

Study container labelling carefully before application.

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).

FIRE

Do not expose to naked flames or other source of ignition, **NO SMOKING.** Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO₂ or foam.

STORAGE

Both elements of the Protect No.6 system should be stored in sealed containers in warehouse conditions at temperatures between 10°C and 30°C. Under these conditions they have a shelf life of 6 months.

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.

John. L. Lord & Son (Rizistal) Ltd.



Wellington Cement Works, Ainsworth Road, Bury BL8 2RS
Tel: 0161 764 4617 Fax: 0161 763 1873
E-mail: enquiries@john-lord.co.uk

