

# BLUSKY™ POXYCRETE 51

## Solvent Free Food Grade Epoxy Resin Based Coating

### Description

**BLUSKY™ POXYCRETE 51** is high build and fast drying food grade epoxy coating which provides long term protection to cement and concrete substrates. It is cured by special epoxy hardeners, which cures in slightly damped moist conditions. It can be used for potable water storage tanks, water canals etc.

**Pack –A: Resin, Pack –B: Hardener**

### Indicative Characteristics

Appearance of cured film	Grey or off white
Specific Gravity at 27°C	1.3 ±0.1
Solid content, % (w/w)	>98
Mixing Ratio, Pack –A:B (by wt.)	4:1
Pot life, minutes at 27°C, 100 g mass	30-40
Application Temperature, °C	5 to 40
Coverage (Theoretical)	6-8 m <sup>2</sup> /kg/ per coat (100 microns per coat)
Initial cure at 27°C, for pedestrian traffic	After 24hours
Recoating time	After 12- 18 hours
Pull out Bond Strength, at 7 days, N/mm <sup>2</sup>	2 (minimum) or concrete failure
Full cure, days	7
Recommended No of coats	2 (minimum)

### Domains of Application

**BLUSKY™ POXYCRETE 51** is used for potable water tanks as a coating / lining material. Tank linings, Structural steel, Masonry and Concrete surfaces, Furniture, Chemical plants, Oil refineries, Foodprocessing industries, etc.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the “Application” paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website [www.bluskyscpl.com](http://www.bluskyscpl.com)

### Method of Application Surface Preparation

Substrate surface should be sound, clean and dry for successful coating application to ensure maximum bonding between the substrate and coating system. Moisture content of substrate surface should not be **more than 5%**. Clean the surface by scrubbing followed by thorough water wash and wire brushing to remove laitance, dust, grease, paint, etc. followed by air drying. As the case may be, light sand blasting, detergent wash and /or acid etching may also be done. The choice of surface preparation should be determined by the nature and extent of contaminants present on the concrete surface. Damaged or uneven areas, cracks etc. should be made good.

### Mixing

A suitable power driven mixer / stirrer is recommended for uniform mixing of **BLUSKY™ POXYCRETE 51**. Stir the base and hardener separately. Add hardener into the base and stir well till a uniform color is achieved. Wait for 5 minutes for induction and to release entrapped air from the epoxy mix. Remix the mass again before apply it. All packs are pre-weighed and ready for on site mixing. Do not use fraction of any **PACK**. Always use whole packs for best results.

### Application

The product may be applied by a soft nylon brush or roller. If the concrete surface is very porous, more than two coats may be required to seal all surface pores otherwise air bubbles may appear on the next coat. While application, the substrate temperature should be at least 5°C and 3°C above dew point but not above 40°C.

# BLUSKY™ POXYCRETE 51

## Solvent Free Food Grade Epoxy Resin Based Coating

### Advantages

- Can be applied to damp concrete without any loss of adhesion.
- Ideal as a body coat in protective coating systems.
- Particularly suited to quick repair situations like maintenance work.
- Cured film is very hard and abrasion resistant.
- Excellent bond on freshly prepared concrete surfaces.
- Recommended for use with a wide range of acids and alkalis, salts, organic chemicals, solvents etc.
- Can be applied by brush or roller
- Very good moisture barrier property
- Contains no VOC, hence GREEN PRODUCT

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

### Packing

5 kg kit (Pack-A: 4kg, Pack-B 1kg).

### Precautions

- Store the material in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.
- Should not be mixed multiple packs at a time. This may result drastic reduction of pot life and material may gel quickly before application.

### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on [www.bluskyscpl.com](http://www.bluskyscpl.com)

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website [www.bluskyscpl.com](http://www.bluskyscpl.com)