

RESIDENTIAL  
& COMMERCIAL

INDUSTRIAL  
& MARINE

ART  
& CRAFT

**SHIMICOAT**  
SURFACE SOLUTIONS



## Pack Sizes

| NO | Pack Size |
|----|-----------|
| 1  | 50gr      |
| 2  | 250gr     |
| 3  | 1Kg       |

## Description

Shimicoat offers Glow in Dark Powders in Green and Blue long-lasting dominant colours. The products are rechargeable and absorb light from sun and releases in darkness.

### HOW IT WORKS

Another name for glow in dark is phosphorescence or fluorescence. It simply says that the product absorbs the sun light and releases it in the dark. This can be done with phosphorus and newly developed chemical compounds. It needs to be very dark to get a good effect. If it is not dark enough, the product won't light up. The glow time depends on the workable substance in the material and the amount of light stored in the product. Shimicoat Glow in Dark Powders may emit lights up to 10 hours, when fully charged.

Shimicoat Research and Development (R&D) Department have created a number of chemical substances that behave like a phosphor with three characteristics:

- The type of energy they require to be energized
- The colour of the visible light that they produce
- The length of time that they glow after being energized

Once they stop glowing, they can be re-charged again for 10 years or more. The powders are made of various rare-earth doped compounds, such as strontium aluminate, calcium aluminate, and zinc sulfide, they are all high-quality, non-toxic and non-radioactive.

## How Much Glow in Dark Powder and Resin Do I need?

We suggest mixing Glow in Dark Powder at a ratio of 1:4. One part Glow in Dark Powder to four parts resin by weight. Glow in Dark Powder can be mixed into Part A and then Part B added to the blend. Be sure to stir the mix of both parts (A&B) and the Glow in Dark Powder thoroughly to ensure the best consistency and uniform results.



**MATERIALS**



**CHEMICALS**



**RESINS**



**EQUIPMENT**

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## Does Glow in Dark Powders settle in resin?

Glow in Dark Powder naturally settle to the bottom of resin. This typically isn't a problem for anyone using the resin to coat table top, bar top, engraved sign, floor surfaces, handles and stairs, etc. The Glow in Dark Powder will settle nicely into the grooves, floor surfaces and leave a layer of resin over to lock and secure the Glow in Dark Powder within epoxy body while allowing some thickness to sand, or buff off and finish off nicely.

Glow in Dark Powder contains a spectrum of powders, sized from a few micros to a few hundred microns. Glow in Dark Powder with particle size of under 15 microns will mix in and remains as suspension in resin giving the end product an even consistency. Larger particle sizes can settle more and absorb/store more light and therefore glow longer.

For further advice refer to SHIMICOAT bulletin or website or contact SHIMICOAT sales and technical department.

## Features

Selected properties of SHIMICOAT Glow in Dark Powder:

- Compatible with most Epoxy, Polyurea, Polyurethane, Acrylic and Polyaspartic resins
- Available in Easy DIY Kits
- Simply, blend into your resin and apply
- Powder form and easy to mix in
- Safe to use and Environmentally benign
- Long lasting Glow in Dark (Up to 10 Hours)
- Available in dominant blue and green colours
- Can be use over a range of concentration (Ideally 25%)
- Rapidly disperses into your liquid system
- Easy roll, brush or pour-on application
- Special Effect Flooring Systems
- Art, Cosmetic, Nail, Decorative and Craft
- Vibrant & Colourful
- Epoxy Glow in Dark,
- Dominant Green and Blue Glow,
- Luminescent Blue
- Luminescent Green

## Colour Chart

Blue and Green

## Usage

Add 25% into Ultra Clear Epoxy (250gr/Lt)

1 Part Glow in Dark Powder per 4 Parts Ultra Clear Resin

Apply 1Lt/sqm using squeegee followed by back rolling

Dosage may increase or decrease to your desired effect

## Applications

Ideal for safety floors outdoor under the sun. It glows after sunset until bedtime (5-10 hours)

Add into Part A resin, mix well then add Part B (curing agent) into the resin. Apply to the surface in your desired method:

1. Pour-On and squeegee to spread over the surface
2. Roll-On using a Roller
3. Brush-On using a Brush

## Clean Up

The product is in fine powder form, handle carefully and wipe off the surfaces once finished.

## Preparations

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash  
Acid-wash to enhanced surface porosity and etch the surface

Ensure moisture free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry.

Ideally, always consider surface grinding and removal of loose materials. Grinding is always advisable prior to application of all Shimicoat Epoxy products, to maximize adhesion.

For further information, please refer to SHIMICOAT Instruction for "Surface Preparations".

## Specifications

### Physical & Chemical properties of Glow in Dark (Rechargeable Powder)

|                                    |  |
|------------------------------------|--|
| <b>Colour</b>                      | Available in Blue and Green                          |
| <b>Materials</b>                   | Micro colourful plastic pieces, Decorative Materials |
| <b>Packing Density</b>             | 1.6Kg/Lt   |
| <b>Solubility in Water</b>         | Insoluble  |
| <b>Solubility in Resin/Solvent</b> | Insoluble  |

## Direction

SHIMICOT Glow in Dark charges by day light or any artificial light source. Ideal choice for any decorative concrete area that has a good light source yet is dark at night. One of the most popular uses of Shimicoat Glow-in-Dark powder is the creation of *Glow in Dark* resins and epoxies.

## Glow-in-Dark Epoxy

### An Installation Guide

All epoxies tent to yellow when under direct sunlight. Glow-in-Dark needs sun to recharge, so, if

1. Use Epoxy: When applying indoor (out of direct sunlight)
2. Use UV resistant resin such as Polyurea, Polyurethane or Acrylic resin when applying outdoor (under direct sunlight).

Following is a step by step guide to install Glow in Dark Epoxy surface using Shimicoat Products and Materials over concrete, wood and metal surfaces.

## Products and Materials

1. Glow-in-Dark in your choice of colour
2. Ultra Clear Epoxy Topcoat (Indoor), UV Resistant Resins Topcoat (Outdoor)
3. Diluent / Thinner

## Tools:

1. Electric mixer or stick for missing resin
2. Brush and Rollers
3. Vacuum or blower to clean up the surface

## DO IT YOURSELF, BRIGHTER & BETTER!

Glow powder works well with Shimicoat Ultra Clear Epoxy and other epoxies in the market. This guide will serve as a useful resource to help you achieve optimal results.

- Prepare the surface, river table, grove, or any area that you like to apply Glow in Dark Powder.
- Glow in Dark Powder (Blue or Green) can simply be added to Ultra Clear Epoxy (Part A).
- Correct quantity of Ultra Clear Epoxy Hardener/Curing Agent (Part B) can then be added to Part A followed by 2-3 minutes of mixing. Use slow speed mixer or stick, avoid aeration.
- Pour onto the surface and guide the resin on the surface as you wish.

Alternatively, you can place the Glow in Dark powder on the surface as you wish and cover the area with Ultra Clear Epoxy (100UC).

For further advise, please refer to our website or contact technical team at Shimicoat.

## WARNING

Keep out of reach of children

Read Safety Material Data Sheet (MSDS) of the product prior to use

All epoxies tend to yellow when under direct sunlight. Glow-in-Dark need sun to recharge, so, if

3. Applying indoor (out of direct sunlight) use Epoxy,
4. Applying outdoor (under direct sunlight) use UV resistant resin such as Polyurea, Polyurethane or Acrylic resin.

## Storage

The products shall be stored out of direct sunlight and heat at all times. The shelf life of the product is 24 months.

## DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.

The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use.

*This information and all further technical advice are based on our present knowledge and experience.*

*The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.*