



CREC-LITE® PHOSPHORESCENT PIGMENT #620 PRODUCT INFORMATION

DESCRIPTION

This “glow in the dark” or phosphorescent pigment consists of very fine crystals of zinc sulfide doped with copper (ZnS:Cu). The glow is due to the unique properties of crystalline zinc sulfide. Copper is added to the zinc sulfide as an activator. This allows the crystals to absorb light and slowly emit over time. This slow emission is called phosphorescence. This material has a light yellow (natural) body color and a light yellow-green after glow.

GLOW TIME

The glow from the Phosphorescent Pigment #620 will be perceptible for up to thirty-to-forty minutes *after* removal of the light source. The best performance is attained if the material is excited with a light source rich in UV. For example, black light will be roughly twice as effective as a standard tungsten filament incandescent lamp.

APPLICATIONS

- ❖ Warning and exit signs where a glow time of 30-40 minutes is sufficient
- ❖ Silkscreen printing on textiles and posters
- ❖ Toys and novelties
- ❖ Fishing Lures
- ❖ Craft paints

PAINTS AND INKS

- ❖ Use a transparent vehicle with neutral or alkaline pH. Crescent Bronze offers the phosphorescent in latex, acrylic lacquer, alkyd enamel and two-part epoxy paint systems.
- ❖ To minimize settling use a viscous vehicle and frequently, gently stir the vehicle
- ❖ Apply a white base coat under the phosphorescent layer
- ❖ To improve gloss and to protect the pigment, apply a clear coat. Crescent Bronze offers clear coats in latex, acrylic lacquer, alkyd enamel and two-part epoxy systems.

PLASTIC

- ❖ Phosphorescent Pigment # 620 is compatible with acrylics, polyesters, epoxies, PVC, polypropylene and polyethylenes (HDPE, LPDE, etc.)
- ❖ Material can be cast, dipped, coated, extruded or molded

NOTICE

Although this pigment is extremely stable, there are a number of things to avoid:

- ❖ Do not grind or mill the pigment. Breaking down the crystals will destroy the after glow.
- ❖ Avoid exposing the pigment to strong acids or heavy metal compounds. These materials will react and destroy the glow.
- ❖ This pigment is not recommended for prolonged outdoor application. Sunlight and weather will cause the pigment to slowly decompose.

This product complies with DIN EN71 Standard.