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The Chemistry of Customer Attention

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APPLICATION NOTES

CraigGlow Coatings

DESCRIPTION

These specialty Glow-in-the-Dark coatings may be applied to many printed formats to achieve extraordinary effects. The glowing effects are best when the coating is printed over white coated or unprinted portions of the format. When the lights are turned off, the coated area “lights up”. The best performance occurs when material is subjected to light sources rich in UV light, e.g. black light. It can be supplied in a waterbased (8910 Series) or a UV Curable (1221 Series) vehicle. The standard product is a “ghostly” yellowish-green color. Other colors or viscosities are available, but are special order products.

APPLICATION

Mix well before using. The pigment in this coating is very dense and at a high loading. As a result, this product will settle upon shipping, storage, or prolonged periods of use. For press runs, be sure to continually mix and circulate to prevent settling and inconsistent application.

This material is intended for Flexographic or pattern gluer application, but may also be silk-screened. A minimum of 0.5 mil **dry** coating is suggested. However, for optimum effect, applications of 1.0-2.0 mils **dry** coat weight may be needed to achieve the desired effect. Be aware that higher coating weights will be more brittle than lower ones. For silk screen, an 80-195 twill weave mesh is suggested as a starting point for screen applicators. When printing via flexo, a doctor blade should not be used.

For **waterbased** coatings, heavier coatings will need longer drying times.

For **UV Curable** coatings, multiple and/or higher intensity (600WPI) lamps may be required for heavier coat weights. Special lamps (i.e. iron or gallium “doped”) may be needed to obtain an adequate through cure; however, this is not normally needed. Please test these parameters prior to running a job.

NOTES

- The glow will be intense for 15-20 minutes after removing the light. A perceivable after glow, however, will remain for a longer period of time.
- Glow times will also vary depending on the intensity and excitation of light source as well as film thickness. Heavier coatings glow longer than lighter ones.

- Printed samples have been tested for 2-3 years and have been found to still give satisfactory glow properties upon exposure to a light source.
- Heavier coatings will also be more brittle. Please determine the properties desired (i.e flexibility, glow intensity, etc.) before running.
- Avoid strong acids. They are detrimental to the crystals in the coating.
- These coatings are not recommended for outdoor applications. Sunlight and weather will cause the crystals to slowly decompose.
- Fine line or detailed images may be difficult to achieve due to the heavy application thickness required.
- The product density is over 13 lbs./gallon. Keep this in mind when ordering by pound. The amount received may not be as many gallons as expected.
- **ACMI & CONEG:** Standard Craig Glow products meet the requirements of the Arts & Craft Materials Institute and CONEG for heavy metals. Please call for information on special colors.
- For more information on individual products, consult **Technical Data Sheets**.

USES

- ❖ Warning and Exit signs
- ❖ Silkscreen printing on textiles and posters
- ❖ Fire fighting and mining safety gear
- ❖ Toys, games, novelties and books and magazines
- ❖ Craft paints