

## Hi-Gloss Krystal Kote S-1311 Press-Applied Acrylic Coating

Hi-Gloss Krystal Kote **S-1311** is a more press-stable, higher gloss version of our original Krystal Kote **S-1302**. As with the original Krystal Kote, it was designed as an aqueous overprint varnish for application on paper or paperboard through the ink fountain of any sheetfed press. No separate coating unit is needed!

When applied over wet or dry litho inks, **Hi-Gloss Krystal Kote** maintains a set speed that practically eliminates the need for spray powder. It can also be used for the fast work-and-turn jobs that previously required standard aqueous coatings.

Hi-Gloss Krystal Kote eliminates common problems with oil-based overprint varnishes, such as yellowing with age and slow drying. **Hi-Gloss Krystal Kote** offers the following performance characteristics:

- ❖ Excellent Gloss ❖ Added Rub & Scuff Resistance
- ❖ Improved Press Stability & Higher Viscosity, compared to original **Krystal Kote S-1302**.

### Pressroom Instructions for Using Hi-Gloss Krystal Kote

1. Because **Hi-Gloss Krystal Kote** is water based, no dampening system should be used. Dampening form rollers should be backed away from the plate cylinder.
2. If the overprint is to be flood coated, we recommend a conventional offset plate. **Hi-Gloss Krystal Kote** will not litho, so spot varnishing must be done with a dry offset raised plate setup.
3. Clean ink fountain and rollers. This overprint is not compatible with normal litho inks and should not be mixed with them.
4. Although more press stable than the original, **Hi-Gloss Krystal Kote** does not have the stability of oil-based overprint varnishes. Consequently, it should not be put on the press until make-ready is complete and you are ready to print.

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5. Use minimal roller pressure. The press should be started with a thick film and brought down to the desired film level (about 20-25% more than standard oil-based overprint varnishes). If the press is down for more than 10 minutes, rollers should be sprayed with a fine mist of water before restarting. If the press is down for longer periods of time, wash the blanket, plate, and rollers with water and a mild detergent.
6. Blanket packing should be undercut 3/16 inches narrower than the blanket size to protect against paper curl, coating build-up, and slinging on the outside edges.
7. Drying may be assisted with air movement and IR units (short or medium wavelength, load temperatures not to exceed 90° F). Spray powder can be minimized or eliminated.

### Ink Selection

Proper ink selection is important when using Hi-Gloss Krystal Kote. Certain pigments used in the PANTONE® Mixing System have the potential to bleed when brought into contact with this varnish. The most bleed sensitive colors are those containing any of the following: PANTONE rhodamine, PANTONE purple, PANTONE violet and PANTONE reflex blue.

Further, colors containing small amounts of PANTONE warm red have also been known to bleed when coated. Please consult your Gans Ink technical specialist for alternative formulations when any of these colors must be used with Hi-Gloss Krystal Kote.

It is also important to choose an ink that is quick setting and wax free, or uses a coatable/imprinatble wax. Again, consult a Gans Ink technical specialist for specific recommendations.

All jobs should be pretested using exact ink, coating, and paper combinations to determine compatibility.

For other Krystal Kote information, see Gans Technical Bulletins 172, 190 and 215.

Physical Properties:

Tack	pH	Rub:	Gloss	Specific Gravity
25-30	8.0-8.5 @ 77° F	500 with 4-pound weight	85	1.03

All tack readings are @ 1200 rpm, 1 min., 90°Fahrenheit – Thwing Albert 101 Inkometer.

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