



# TECHNICAL #172

## BULLETIN

### KRYSTAL KOTE Press Applied Acrylic Coating

**Krystal Kote** is a newly formulated product that enables the sheetfed printer to apply a gloss over print equal in quality to that of water based coating. This product is applied THROUGH THE INK FOUNTAIN of any sheetfed press! With **Krystal Kote**, sheetfed printers can now produce jobs that previously required a coating unit.

**Krystal Kote** is a water-based coating that has been formulated with stability able to withstand application through the ink roller system. When applied over wet or dry litho inks, **Krystal Kote** maintains a set speed that practically eliminates spray powder. It can also be used for fast work and turn jobs previously only possible with aqueous coatings.

Common problems with oil-based overprints, such as yellowing and slow drying are eliminated. The clarity, gloss and rub properties are equal to those achieved with aqueous coatings. Because of the water base, the dampening system is not used. If the overprint is to be flood coated, we recommend a conventional offset plate. For spot varnish, a dry offset plate and press setup must be used.

#### PRESSROOM INSTRUCTIONS FOR USING KRYSTAL KOTE

1. Clean ink fountain and rollers. **Krystal Kote** is not compatible with normal litho inks and should not be mixed with them.
2. **Krystal Kote** does not have the press stability of oil based overprints, consequently it should not be put on press until make ready is complete and you are ready to print.
3. Use minimal roller pressure. The press should be started with a thick film and brought down to the desired film levels. If the press is down for 5 - 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 roller with water and a mild detergent.
4. Blanket packing should be undercut 3/16" narrower than the blanket size. This will protect against paper curl, coating build-up and slinging on the outside edges.
5. Use a conventional plate. Dampening form rollers should be backed away from the plate cylinder. **Krystal Kote** will not litho. It can be used as a spot varnish only with a dry offset plate.
6. Inks should be chosen as if they are to be used under water based coating. They should be imprintable and have pigments that will not bleed in alkaline conditions.

#### GANS INK & SUPPLY COMPANY

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**WARNING!** Avoid the use of inks containing pigments that may bleed or change color when coming into contact with an alkaline overprint varnish. Pigments that exhibit this alkali sensitivity include **Alkali Blue (Reflex), YS Rhodamine, BS Rhodamine, Warm Red, Red Lake C, Methyl Violet, Purple and some Fluorescents**. As a precaution, always evaluate new pigments and ink formulations with the overprint to be used. When ordering inks for a job that is to be coated, you must specify “bleed resistant” colors. Please consult your Gans Ink technical specialist for alternative formulations when any of these colors must be used with **Krystal Kote**.

It is also important to choose ink that is quick-setting and wax free or uses a coatable, imprintable wax. Again, consult a Gans Ink technical specialist for 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 186, 190 and 215.

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