



TECHNICAL

#299

BULLETIN

S-I304 Krystal Kote HG Varnish

Product Description

S-I304 is formulated as a higher-gloss version of S-I302. It is an aqueous overprint varnish for application to paper or paperboard through the inking unit of a sheetfed offset press. Typical applications would be for commercial printing. For additional information regarding specific applications, please contact your Gans Ink & Supply Company representative.

Performance Characteristics

- ❖ Higher-gloss version of S-I302.
- ❖ Better rub-resistant version of S-I302 (test versus specifications prior to use).
- ❖ Can be used as a UV coating primer (test first).
- ❖ Will accept hot foil stamping and imprinting (test first).
- ❖ Good choice for highly calendered stocks where fast setting is important.
- ❖ Fast setting and drying speed (not as press-stable as S-I311).

Physical Properties

- ❖ Tack: 15-20 @ 1200 rpm for 30"
- ❖ pH: 8.0-8.5 @ 77° F
- ❖ Specific Gravity: 1.03

Application Information

- ❖ **Drying Requirements:** For best results, aqueous overprint varnishes require a sufficient volume of warm air directed onto the varnished surface. The use of IR units (short or medium wavelength) can provide drying assistance in many applications. Exercise care to avoid load temperatures in excess of 90°F.
- ❖ **Application Weight:** Apply about 20-25% more than oil-based overprints.
- ❖ **Ink Formulary:** Limit wax to typical polyethylene to ensure proper inter-coat adhesion. The use of PTFE, microcrystalline wax or silicone may contribute to application problems. Avoid the use of pigments that may bleed or change color when in contact with an alkaline product. As a precaution, always evaluate new ink formulations/technologies with this aqueous overprint varnish.

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