

GLOSS—LOW VOC WB KOTE

Gans Ink & Supply has worked with Actega Kelstar in the formulation of this particular water based coating formula. Gans' Gloss Low VOC WB Kote is considered a "Work and Turn" and may be used in recoating applications, embossing, foil stamping and UV Coating applications.

TECHNICAL PERFORMANCE INFORMATION

Gloss-Low VOC WB Kote Item Codes

- ◆ 470 lb. Drum—55 Gal. **S-1880D**
- ◆ 260 lb. Drum—30 Gal. **S-1880**

Application

- ◆ Offset Litho
- ◆ Flexo
- ◆ Gravure

Equipment and Substrate

Gloss-Low VOC WB Kote was formulated for all types of paper and board. Coating set speeds may vary based on the actual film weight applied. Ideal results may be seen on equipment with extended delivery units in which air knives can be utilized.

Coating Viscosity

A #3 Zahn Cup should be used when measuring Aqueous Coating viscosity. The desired viscosity for Gans' Gloss-Low VOC WB Kote is 19-22 seconds measured at 74°F.

Gloss Level

At a 60° angle, Gloss-Low VOC WB Kote demonstrates 20—30 points over the stock in which it is applied. Absorption and porosity of the paper stock will affect the final gloss values.

Pigment Bleed and Color Shift

Gloss-Low VOC WB Kote has a pH of 8.0-8.5. Aqueous coatings have the potential to cause inks to "Bleed" or "Color Shift." It is important to order your ink as "Coatable" or "Bleed Resistant" before utilizing them on press to avoid a deviation in the desired color.

The colors listed below or any PMS colors that contain the listed **PANTONE**® bases should be noted and ordered appropriately:

Rhodamine Red	Reflex Blue
Purple	Violet
Warm Red	072 Blue
021 Orange	All Fluorescent Colors

See Gans' technical bulletin on "Bleed and Color Shift" for further information.

Technical Properties

Gans' Gloss-Low VOC WB Kote demonstrates a **fast** set speed with a block resistance of 2 PSI / 120°F / 16 Hours. For packaging applications, a Slide Angle of 22° ± 2°. Rub resistance tests demonstrate 50 cycles / 100 rubs utilizing a Sutherland Rub Test-4.0 lb. weight.

To avoid the coating resoftening when printing the second side, it is important to set the air knives at 100% volume to maximize the air flow over the sheet and extract as much saturated air as possible. This will enable the coating to dry quickly and efficiently. Hot Air Knives should be set to ambient temperature with a reduced pile temperature during the printing of the second side.

It is important to know that an Infra-Red Dryer (I.R.) is used on a press to heat up the sheet and ink, thus driving off the solvents and retained moisture encapsulated within the wet ink film when printing. The Infra-Red Dryer should be utilized to control the pile temperature in the delivery area of the printing press. ***Ideal Pile temperatures should be within the ranges of 95°F—100°F.***

Utilizing a larger micron anti-offset powder (30 micron or larger) when printing the second side of the job will assist in preventing sticking of the sheets. Utilizing a coated anti-offset powder will better assist in applications that might include post finishing applications such as an overprint varnish, UV coating, or laminating, resulting in a smoother finish.

Clean-Up

Utilize Gans' Aqueous Coating Cleaner (S-1855) in conjunction with water for best results.

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