

# SunChemical®

# KOHL & MADDEN

## PRODUCT DATA SHEET

### Product: HyBryte™ Pro UV Strong Process Inks

Sun Chemical Corporation 2445 Production Drive St. Charles, IL 60174 630-587-5100

#### DESCRIPTION:

HyBryte Pro UV strong process inks represent a new concept in hybrid technology in that this chemistry offers a much wider water window than previous technologies. These inks are designed for use on both straight UV and hybrid presses using hybrid UV rollers. HyBryte Pro inks transfer easily, yet mist very little at high press speeds due to their ability to not shear-thin under emulsification conditions. HyBryte Pro inks can be used for paper and many plastic applications. HyBryte Pro inks print sharp and offer great trap efficiency. These inks are both tack and viscosity rated, so they can be used with or without inter-station curing.



#### PRODUCT RANGE:

##### Process Colors:

Strong	<b>Formula Number</b>
Process Yellow	SV28852
Process Magenta	SV48853
Process Cyan	SV58854
Process Black	SV98855

*\*Adhesion to each type of plastic stock should be lab tested before use. Minimum corona treatment levels are required. Not designed to be laser imprinted.*

#### FEATURES:

- In line UV and/or aqueous coat-able
- Outstanding print contrast
- Extreme dot sharpness
- Wide water tolerance
- Exceptional color recovery (start/stops)
- Press stable
- Has adhesion to certain primed & corona treated plastics\*
- Speeds make-ready
- Fast curing
- Low misting

#### UV FOUNTAIN SOLUTION AND WASH:

Kohl & Madden and Rycoline have worked together to design two fountain solutions to help enhance the press performance of UV Inks. Synergy™ UV One-Step and Green Diamond 251/AR products are supported by the Rycoline technical team to help printers optimize print efficiency. Kohl & Madden recommends to set fountain solution pan temperature at 60-63 degrees Fahrenheit. Roller train temperature should be held between 78 and 80 degrees. In addition, Rycoline offers a new UV wash.



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## Product: Synergy™ Press Chemicals

### FOUNTAIN SOLUTION

Synergy™ One-Step UV Fountain Solution is based on newly developed European technology. A one-step system, it eliminates plate sensitivity, offers excellent start-ups, and optimizes ink / water control. Synergy fountain chemistry has been specially formulated for UV offset ink applications where critical water settings need to be reached quickly to promote maximum productivity. This fountain solution helps reduce tank contamination and helps eliminate ink feedback to press dampeners.

#### DIRECTIONS

Dosage: 4-6 ounces of concentrate / gallon of water.

Temperature: For UV applications the optimum pan temperature range is 58-65 degrees

#### SPECIFICATIONS

VOC: 2.5 lbs. / gal. (28.5%)  
pH: Approx. 4.9 (undiluted)  
Conductivity: Approx. 390 mmhos per oz.



### PRESS CONDITIONER

This special UV press conditioner developed by Sun Chemical can be applied to new rollers to help prepare them for UV printing. It is essential that all new rollers be conditioned well. This helps the performance of any UV ink for UV printing applications, including hybrid.

#### DIRECTIONS

Apply directly to all rollers and idle press for 30-60 minutes. Make sure that the rollers remain wet with this material, **replenishing more** conditioner to each roller if necessary. Clean off rollers using a Rycoline UV roller wash. **DO NOT LET ROLLERS RUN DRY.**



### UV WASH 123304

This new UV wash is Rycoline's answer for the "hard-to-clean" UV print unit. This is a blanket and roller wash that offers better UV ink-cutting ability, while maintaining an acceptable flashpoint. Synergy UV wash can be used in automatic systems and is fully approved by the manufacture of such devices.

This special wash has been formulated to work best with Synergy UV inks, fountain solutions and UV coatings.

#### SPECIFICATIONS

VOCs: 6.98 lbs. / gal. (100%)  
Flashpoint: 105° F



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