

Product: UV Offset Printing Inks

Series: Suncure™ FSP (Flat Sheet Plastic)

DESCRIPTION: Suncure FSP is a ink system designed for sheetfed presses equipped with UV curing units. These inks are formulated to print on and give good adhesion to a wide variety of plastic substrates for display and card applications.

Benefits:

- Outstanding adhesion to unprimed plastics
- Highly transparent
- In line UV and/or aqueous coat-able
- Excellent gloss retention
- Outstanding print contrast
- Extreme dot sharpness
- Wide water tolerance & press stable
- Excellent cure response for high speed printing
- Exceptional color recovery (start/stops)
- **Meets the requirements of ISO12647:2**

Substrate Recommendations:

- Suncure FSP inks perform well on a variety of primed and unprimed plastic substrates. Always lab test each plastic substrate for adhesion in the lab to ensure adequate adhesion. The dyne level of each plastic should be measured during these lab tests and prior to printing on any plastic job to ensure that treatment levels are consistent. A special "Primerless" version of the Suncure FSP plastic ink technology is available for credit card applications.

•Available Colors:

- Process colors
- Blending colors
- Lightfast blending colors
- Special colors available on request

Application Data:

The 4/C inks are formulated to be tack rated with the sequence being black, cyan, magenta, and yellow.

The blending inks are unitack.

Tack = 24-17 +/- 2

Recommended Chemistries:

Compatible with a wide range of press consumables.

Synergy One-Step fountain solution and Green Diamond 251/AR products are supported by the Rycoline technical team to help printers optimize print efficiency. Sun Chemical recommends to set fountain solution pan temperature at 63 degrees F. Roller train temperatures should be held between 78-80 degrees F.

In addition, Rycoline offers a Synergy UV wash – 123304.

Storage Considerations:

Energy curing inks and coatings should be stored in closed containers and not exposed to sunlight. Avoid cross contamination to unknown particles and other printing inks and other chemistries. Rotate stock to ensure freshness of product. Shelf life is 6 months guaranteed.

All information on this data sheet is based on Sun Chemical laboratory tests and experience in print shops. Procedures and directions for use of Sun Chemical products (including printing and after-treatment) must be considered as recommendations only, with no warranties expressed or implied. The user of the products described herein is solely responsible for determining suitability of any Sun Chemical product for the particular application. Sun Chemical recommends that all products be pre-tested prior to full-scale production use. ~~This data sheet supersedes all previous publications. Nov. 2008~~

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Product	Code	Lightfastness BW Full Strength	Alcohol	Alkali
Process Yellow	UV4Y587R65	4	+	+
Process Magenta	UV3M587R65	4	+	-
Process Cyan	UV2C587R65	7	+	+
Process Black	UV1K587R65	7	+	+
Blend Yellow	UV1SSBBR65	4	+	+
Blend Warm Red	UV2SSBBR65	3	+	+
Blend Rubine	UV3SSBBR65	4	+	-
Blend Imit. Rhodamine	UV4SSBBFRR65	7	+	+
Blend Imit. Purple	UV5SSBBR65	7	+	+
Blend Imit. Violet	UV11SSBBFRR65	7	+	+
Blend Imit. RF Blue	UV6SSBBR65	7	+	+
Blend Process Blue	UV7SSBBR65	7	+	+
Blend Green	UV8SSBBR65	7	+	+
Blend Neutral Black	UV9SSBBR65	7	+	+
Blend Extender	UV10SSBBR65	-	+	+
Blend Opaque White	FLOWV1482766	-	-	-
Lightfast Process Yellow	UV4Y587FRR65	7	+	+
Lightfast Process Magenta	UV3M587FRR65	7	+	+

* The Blue Wool Scale rating indicates the relative lightfastness of an ink. It is measured on a scale from 0 to 8,

with 0 having poor lightfastness and 8 having excellent lightfastness. The numbers here reflect the fade resistance of a full-strength ink. Tints or blends of these inks may exhibit lower-lightfastness.

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