

# SunCure<sup>®</sup> Lazer Technical Data Sheet

SunCure Lazer UV printing inks were formulated to run on high speed web offset and sheetfed presses. These inks are ideally suited for business forms, direct mail, and commercial printing and are for use on paper substrates.

## typical characteristics and features

SunCure Lazer inks are formulated to have the following properties:

- Dot sharpness for better overall print reproduction
- Fast cure response for high speed printing
- Exceptional color recovery for starts and stops
- Low to no mist
- Abrasion resistance
- Gloss retention
- Laser imprintable
- Suitable for in-line and off-line coating

## technical information and ink handling

### Pigment selection and color range

SunCure Lazer inks are available in a range of:

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

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

Tack = 20 + / - 2 @ 1200 rpm.

### Press speed

SunCure Lazer inks are designed to run on high speed equipment. Curing at high speed depends on the UV lamps being in the proper condition and emitting the correct amount of focused UV energy.

### Rollers and plates

These inks are formulated to work with rollers, blankets and plates designed for compatibility with UV curing chemistry.

### Process Colors

Process Colors	EMG Number	SAP Number 5 lb Cans (C228)	SAP Number 3 Gallons Kits (K343)	SAP Number 8 lb Canisters (P239)
SunCure Lazer Process Yellow	FLPSV2483066	90861250	90833865	90950552
SunCure Lazer Process Magenta	FLPSV4483067	90861249	90835522	90918085
SunCure Lazer Process Cyan	FLPSV5483068	90861247	90833975	90918088
SunCure Lazer Process Black	FLPSV9483069	90861244	90834112	90918110

### Blend Colors

Process Colors	EMG Number	SAP Number 5 lb Cans (C228)	SAP Number 3 Gallons Kits (K343)
SunCure Lazer Blending Extender	FLPSV0483072	90976577	90824842
SunCure Lazer Blending Yellow	FLPSV2483073	90980586	90824840
SunCure Lazer Blending Warm Red	FLPSV4483074	90980647	90824809
SunCure Lazer Blending Rubine Red	FLPSV4483075	90980565	90824845
SunCure Lazer Perm Blending Rhodamine Red	FLPSV4483083	90976662	90824819
SunCure Lazer Blending Perm Purple	FLPSV6483079	90980645	90824912
SunCure Lazer Blending Violet	FLPSV6483080	90980643	90824911
SunCure Lazer Perm Blending Reflex Blue	FLPSV5483077	90974255	90824873
SunCure Lazer Blending Blue	FLPSV5483078	90980642	90824872
SunCure Lazer Blending Green	FLPSV7483081	90976663	90824896
SunCure Lazer Blending Neutral Black	FLPSV9483082	90980628	90824915
SunCure Lazer Blending Opaque White	FLMBV1481893		90003080
SunCure Lazer Blending Orange	FLSSV3483331		90965797



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## clean-up

SunCure Lazer inks can be cleaned up using Sun Chemical Rycoline<sup>®</sup> Synergy UV Wash – 123304 and UV Low VOC Wash – 123500.

## substrates

These inks may be used for printing on coated, uncoated and matte paper.

## cure conditions

For curing, it is recommended that a standard medium pressure mercury lamp be used. The use of water tubes, quartz filter or other heat management devices may hinder the curing of the inks. Curing conditions may vary depending on film thickness, trap sequence, press chemistries, and lamp system conditions.

## 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. These inks have a 6 month shelf life.

## safety, health and environment

SunCure Lazer inks are to be used in accordance with normal standards of industrial hygiene and good manufacturing practice. Please refer to the Safety Data Sheet for specific information. Safety Data Sheets will be supplied.

Printing inks, coatings and printing residues should be disposed of in accordance with local and national regulations.

The information contained in this technical data sheet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. Our products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing.

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