350 Series

Hybrid LED or Conventional UV ink set for Rotary Screen printing of paper and film substrate

350 Series hybrid LED/UV rotary screen inks are designed for use with all common rotary screen substrates. Fujifilm 350 Series inks offer the ability to cure under either traditional UV or LED lights with the same ink. The 350 Series offers superb dot reproduction, maintain crisp print definition, sharp copy and clean reverses without the gain typical of water or solvent based flexo inks. The 350 Series inks also have good flow and leveling properties and a high gloss level with excellent intercoat adhesion, trapping properties and balanced cure rates. The 350 Series Combination White (CWHD) offers optimum opacity with smooth laydown for use in combination printing.

350 Series is also capable of running at higher than traditional speeds (up to 250 fpm) when printed with Fujifilm Illumina LED curing system.

350 Series Key Features:

- Flexible, high-gloss finish
- Intense color strength
- Fast cure speeds
- High color density
- High chemical and solvent resistance
- Excellent opacity
- Low odor
- Minimal substrate edge curl
- Wide adhesion range

Substrate Application

- BOPP
- PVC
- TCPE
- PE

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THINNING

Stir well before every use. Ink can be thinned up to 8% with 650-TH Thinner. To increase cure speed, thin up to 5% with 650-FTH Fast Thinner.

MESH

305 mesh is recommended 11% opening for colors and 13% opening for whites. Rotary Screen: 5 to 15 micron rotary screens are recommended. Flat Screen applications use 305-420T (120-165/cm) monofilament or equivalent.

STENCILS

Stencil materials must be solvent resistant and produce a thin film stencil (3-6 microns over mesh). Dirasol 911, SuperCoat 915, SuperCoat 916, and SuperCoat 917 dual cure, or Dirasol 132 one pot direct emulsions are recommended to give the highest print quality, minimize deposit variables, and improve economy.

COVERAGE

Standard line colors should give a coverage of 3000-3800 square feet/gallon (74-86 m_/liter) provided the inkvdeposit is between .50 and .70 mil. thick (12 and 18 microns).

CURING

In a curing unit containing two 300-watt/inch (120- watt/cm) lamps, cure speeds of up to 200 ft. (43m) per minute are possible. Cure speeds are dependent on colors, film thickness, opacity, and condition of the lamps.

WASH UP

Wash up with Xtend Press Washes.

PRE-PRODUCTION TESTS

It is strongly recommended that all plastics be tested before use as supposedly similar plastics can vary between different manufacturers and even between different batches from the same manufacturer. Certain plastics may be impregnated with lubricants which, like plasticizer migration, may impair adhesion and block resistance even a considerable period after printing. In line corona treatment of the substrate may improve adhesion where surface tension levels are below 38-40 dyne/cm.

END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION.

PRODUCT RESISTANCE CHARACTERISTIC

650 Series inks have excellent resistance to chemicals and abrasion. For optimum resistance using 650 Series inks, a durable UV varnish overprint can also be used. 650-MX can be used as an overprint varnish.

INTENSE MATCHING SYSTEM

The Intense Matching System has been designed to enable printers to readily match special colors in house. The system consists of eight base colors, each of which has been selected for its cleanliness of tone and suitability for intermixing. Using the Intense base colors plus Black, Tinting White, and Mixing Clear, almost any color can be produced.

Lightfastness of a blue wool rating is 6 or better in the 350 Range. A minimum of 5% color in blends is recommended if fading is a concern.

SPECIAL MATCHES

Special colors can be supplied against prints, wet ink, PANTONE® numbers, or other Sericol standard colors.

350-CWHD RS COMBINATION WHITE

This revolutionary new product has been designed specifically for use in combination printing as a basecoat white. Its unique chemistry eliminates the need to add adhesion modifiers to the flexo and/or letterpress inks printed over top and simplifies the combination printing process.

350-CWHD is an optically bright white, which delivers improved productivity and ease of use while maintaining Sericol's high standards for image quality. It works well with all Gallus, Stork and Telstar screen units. It is not recommended for use as a tinting white in color matches. For best results, contamination from other siliconecontaining products should be avoided.

Technical Tips for Running 350-CWHD

1) Everything that comes into contact with the ink must be completely clean.

a) No left over ink can be in the screen head.

b) If ink is pumped to screen head, pump and lines must be flushed or replaced.

c) Squeegee, as well as the inside and outside of squeegee arm, must be clean.

d) Use a new syringe that has been cleaned in Press Wash.

e) Use new screen or clean old one well.

*Pantone, Inc's check-standard trademark for reproduction and color reproduction.

Technical Tips for Running 350-CWHD, cont...

2) A full head of 350-CWHD is needed.

a) Fill screen head with ink.

b) Use a larger screen mesh circumference to allow more ink inside screen.

3) Fine tuning of the squeegee will be needed.

a) Check pressure and angle of the squeegee.

STORAGE

Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the screen should be disposed of. 650 Series Rotary Screen inks and reducers should not be stored in direct sunlight or extreme temperatures. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.

In the interest of maximum shelf life, storage temperatures should be between 50°F (10°C) and 77°F (25°C).

When stored in a cool environment, the inks and varnishes are expected to have a shelf life of approximately 18 months from the date of manufacture.

SAFETY AND HANDLING

Refer to MSDS for safety, handling, and waste disposal information.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason, our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

SPECIFICATIONS: 350 SERIES

Intense Colors

- 350-026 - RS Brilliant White
- 350-064 - RS 064 Yellow GS
- 350-114 - RS 114 Orange
- 350-121 - RS 121 Red YS
- 350-127 - RS 127 Violet
- 350-164 - RS 164 Red BS
- 350-165 - RS 165 Magenta
- 350-205 - RS Reflex Blue
- 350-230 - RS 230 Blue GS
- 350-233 - RS Blue RS
- 350-301 - RS Line Black
- 350-325 - RS Green
- 350-MX - RS Mixing Clear
- 350-SB - Shading Black
- 350-TW - RS Tinting White
- 350-CWHD - RS Combo White

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