

8300 Series UV Rotary Screen Ink is formulated specifically for roll label applications. The 8300 Series exhibits exceptional print characteristics such as adhesion to a wide range of substrates, high gloss, abrasion resistance and excellent chemical resist.

APPLICATION AND USE

Substrates

Pressure sensitive vinyls, coated paper and board, top coated and print treated polyester, BOPP films, polyethylene and polystyrene. Surface energy of substrates should be at least 40 dynes/cm to achieve proper adhesion. The use of in-line, on press corona treatment can increase the dyne level of many substrates.

Mesh Selection

Rotary Screen: Use rotary screens which will deposit 5 to 15 microns of ink film thickness.

Flat Screens: Use 305 - 420 tpi (120-165 tpcm) monofilament polyester mesh.

Stencil

Solvent resistant, UV ink compatible direct emulsions and capillary films.

Squeegee

65-90 durometer polyurethane squeegee.

Cure Parameters

8300 Series ink cures when exposed to a medium pressure mercury vapor lamp set at 300 - 600 watts per inch at web speeds of up to 250 ft/min. Cure parameters must be determined under actual production conditions.

Clean Up

Use NWC10 EZ Cleaner.

Fade Resistance

The 8300 Series inks are designed for interior applications only. The colors designated with (FR) use pigments which have extended fade resistance.

Storage and Handling

The 8300 Series ink is formulated to be press ready. Thoroughly mix the ink prior to printing. Maintain ink temperature at 65°-90°F (18°-32°C) for optimum print and cure performance. Keep away from heat, flame and direct light sources. Otherwise, premature cure or gel could occur. Proper personal protection equipment and adequate ventilation are required when handling this material. Please consult MSDS for details on proper handling of this material.

Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

Performance Verification

After press/job set up is complete, inspect a portion of the printed web for all applicable and specified properties. These properties include but are not limited to: cure, adhesion, mar and rub resistance, product resistance, gloss, and coefficient of friction. These tests should be performed prior to beginning the full production run.

PRODUCT OFFERING

Standard Printing Colors

The 83300/83400 series Base Colors have excellent opacity, flow characteristics, and are press ready. The 8300 Series standard printing colors can be used in matches to achieve Pantone® color simulations. These blend formulations are available at www.nazdar.com.

Fluorescent Colors

The 8300 series fluorescent colors have the tendency to settle; so high speed mixing is required prior to printing. Fluorescent colors fade with exposure to ultraviolet light, it is therefore recommended to adjust art so these colors are the final colors printed on any image.

Packaging

Product	Americas
Opaque White	11 lb, 50 lb
Transparent White	8 lb, 40 lb
Other Colors	9 lb, 45 lb
Overprint Varnish	8 lb, 40 lb

Standard Printing Colors	83300 Silicone	83400 Non-Silicone
Transparent White	-	83410
Mixing/Over Print Clear	8327	-
Tinting White	83358	83458
Tinting Black	83359	83459
Orange	83360	83460
Yellow	83361	83461
Warm Red	83362	83462
Rubine Red	83363	83463
Rhodamine Red	83364	83464
Purple	83365	83465
Violet	83366	83466
Reflex Blue	83367	83467
Process Blue	83368	83468
Green	83369	83469

Non Silicone Containing Whites	Stock No
Combination White	8376
Combo White	8375
Combo White	6000614483
Beverage White	6000248583
Opaque White	6005274183

Silicone Containing Whites	Stock No
High Intensity White	8378
High Intensity Black	8379
White	8377

Fluorescent Colors	Stock No.
Orange Yellow	83520
Orange	83530
Orange/red	83540
Red	83550
Cerise	83560
Pink	83570
Blue	83580
Green	83590
Magenta	83600

Overprint Clears	Stock No.
R/S Gloss OPV Clear <small>(See OP8001 TDS for more details)</small>	OP8001
R/S Gloss Varnish <small>(See OP8002 TDS for more details)</small>	OP8002
Mixing/Over Print Clear	8327

Tactile Varnishes	Stock No.
R/S Tactile Varnish - Standard Viscosity <small>(See UV Rotary Screen Tactile Ink TDS for more details)</small>	6000600083
R/S Tactile Varnish - High Viscosity <small>(See UV Rotary Screen Tactile Ink TDS for more details)</small>	6002566583

Additives/Reducers	Stock No.
UV Reducer	RE200

Cleaners	Stock No.
EZ Cleaner	NWC10

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

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