Claira™ C3 Non-Phthalate Color Boosters

Description

Claira™ C3 Non-Phthalate Color Booster mixing system is a single pigmented color system with built in binders. No need to worry about pigment overload with these concentrates. They may be used at up to 50% in Rutland's NPT bases to mix non-phthalate printing inks. C3 Color Boosters directly replace both the EB and CB products.

Technical Data Sheet #349 5/13/2010	
Wet Ink Tack	Base dependent
Print Surface	Base dependent
Opacity/ Viscosity	Base dependent
Bleed Resistance	Only when mixed with EL0749 NPT LB Base
Gel temperature	Base dependent
Fusion Temperature	320°F (160°C.)
Squeegee Hardness	Base dependent
Squeegee Blade	Base dependent
Squeegee Angle	45° to screen mesh
Underlay	Use Claira NPT LB White or NPT Barrier Base
Emulsion	Phthalate Compliant Emulsion
Mesh Count	Base dependent
Extender	See approved list
Thickener	See approved list
Storage	65°F to 95°F (18°C. to 35°C.)
Cleanup	Bio-degradable screen wash
MSDS	#38
Color Range	See Product List on page 2
Substrate Type	100% Cotton (other with underlay)
Substrate Color (s)	Light colors or over an underlay

ANY APPLICATION NOT REFERENCED IN THIS TECHNICAL DATA SHOULD BE PRE-TESTED OR SEEK CONSULTATION WITH RUTLAND'S APPLICATIONS LABORATORY PRIOR TO PRINTING. CALL 704-553-0046 EXT. 151 FOR MORE INFORMATION.

Features

- Concentrated single pigment primary colors
- Non-phthalate for mixing environmentally safe plastisol inks
- User friendly, easy mix, easy print
- Low crock and matte finish when mixed in NPT HO Matte Base
- Use Rutland's NPT VO Base for maximum opacity
- Great opacity and brilliant colors when mixed per formula

Application

Mix thousands of colors by using Claira™ C3 Non-Phthalate Color Boosters in any of the Claira™ Non-Phthalate Specialty bases per the formulations found in the M2007 Ink Mixing software. Simply mix the C3's with the appropriate non-phthalate base (see Bases on next page).

Printing on White Garments:

Mix per formulation or custom blend to achieve brilliant colors on 100% cotton whites. For extremely soft-hand prints, mix finished color (C3 plus base) with up to 1:1 with Claira NPT Chino Base.

Printing on Dark Garments or over an underlay:

When printing on dark garments, mix per formulation or custom blend to achieve brilliant colors over an underlay . Use the NPT Low Bleed White on poly/cotton blends and the NPT Barrier base when printing on 100% polyester

Puff designs:

Mix 10-15% of Claira NPT Puff Additive to any formulated Claira™ Color (C3 plus base) to create a puff ink.

Special Recommendations

Claira Colors™, bases, modifiers and additives should be mixed in clean vessels using clean mixer blades and utensils. Any contamination from other ink sources or non-approved additives could make Claira Colors™ test positive for the restricted phthalates.

- **Do not dry clean, bleach, or iron the printed image.**

Note to 100% Cotton users: With low bleed ink, 100% cotton could produce a ghost image. Claira NPT Low Bleed White is a low-bleed ink and should be tested for ghosting before printing on 100% cotton. Claira NPT Low Bleed White is not recommended for 100% polyester. Use Claira NPT Barrier under base for 100% polyester.

Rutland Plastic Technologies does not knowingly add plasticizers containing the phthalates listed and outlined in California Bill 1108, CPSC HR-4040 and Oeko-tex Standard 100. The plasticizers identified may include di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), (DIBP) Di-iso-butyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of Claira™ High Opacity Non-Phthalate Mixing System Inks and Claira™ Non-Phthalate Concentrate Mixing System Inks. Rutland Plastic Technologies does not test the final product for amounts of the aforementioned phthalate plasticizers and esters and encourages all users to conduct testing for their intended use.

Rutland Plastic Technologies, Inc.

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Claira™ C3 Non-Phthalate Color Boosters (continued)

NON-PHTHALATE COLOR BOOSTER MIXING SYSTEM

PRODUCT	DESCRIPTION	USAGE
C31017	NPT FLUOR MAGENTA C3	Single Pigment concentrate mixing color
C31037	NPT FLUOR VIOLET C3	Single Pigment concentrate mixing color
C31440	NPT VIOLET C3	Single Pigment concentrate mixing color
C32441	NPT BLUE #1 C3	Single Pigment concentrate mixing color
C32442	NPT BLUE #2 C3	Single Pigment concentrate mixing color
C32443	NPT MARINE C3	Single Pigment concentrate mixing color
C33033	NPT FLUOR GREEN C3	Single Pigment concentrate mixing color
C33443	NPT GREEN C3	Single Pigment concentrate mixing color
C34037	NPT FLUOR YELLOW C3	Single Pigment concentrate mixing color
C34041	NPT FLUOR LEMON YELLOW C3	Single Pigment concentrate mixing color
C34228	NPT NON-MIGRATING YELLOW C3	Non-migrating, can be used in small amounts
C34449	NPT YELLOW C3	Single Pigment concentrate mixing color
C35018	NPT FLUO ORANGE C3	Single Pigment concentrate mixing color
C36055	NPT FLUOR PINK C3	Single Pigment concentrate mixing color
C36056	NPT FLUOR RED C3	Single Pigment concentrate mixing color
C36446	NPT SCARLET C3	Single Pigment concentrate mixing color
C36447	NPT RED BS C3	Single Pigment concentrate mixing color
C38394	NPT BLACK C3	Single Pigment concentrate mixing color
C39256	NPT WHITE C3	Single Pigment concentrate mixing color
C31018	NPT FF FLUOR MAGENTA C3	Single Pigment RSL concentrate mixing color
C31038	NPT FF FLUOR VIOLET C3	Single Pigment RSL concentrate mixing color
C34042	NPT FF FLUOR LEMON YELLOW C3	Single Pigment RSL concentrate mixing color
C36057	NPT FF FLUOR RED C3	Single Pigment RSL concentrate mixing color

NON-PHTHALATE SPECIALTY BASES, METALLICS, HIGH DENSITY & ADHESIVES

PRODUCT	DESCRIPTION	USAGE
ES0000	NPT ULTRA-SOFT PRIMER CLEAR	Extender base for extreme soft hand
ES0050	NPT JEWELTONE SILVER	Metallic base and stand-alone silver shimmer
ES4060	NPT JEWELTONE 24K GOLD	Gold metallic shimmer
EH0540	NPT VO BASE	Very Opaque Base
EH0542	NPT HO MATTE BASE	Opaque Matte Base
ES0026	NPT THERMO-LINE CLEAR	Clear base for metallics and adhesive needs
ES0031	NPT SPANDESOL STRETCH CLEAR	Base for nylon/lycra provides great stretch
ES0137	NPT SPONGE PUFF BASE	Creates a smooth durable puff
ES0231	NPT BLISTER BASE	Prints a blistered look & base for faux leather
ES0246	NPT SHATTER BASE	Create brittle, cracked & faux leather prints
ES0247	NPT SOFT DENSITY BASE	Base for 3-D High Density prints
ES0250	NPT CHINO BASE	Extender base for extremely soft prints
ES0266	NPT BARRIER BASE (Dyno Grey)	Underlay bleed blocker print base for polyester
ES0274	NPT X-GLUE	Base adhesive for foil, sequins, fabric welds
EG0280	NPT SUPER GEL CLEAR (2 part) mix with 2% M00004	Clear Gel for 3-D clear applications
ES0623	NPT CLEAR BASE	Clear base with low tack for metallic flakes
ES0781	NPT METALLIC SILVER	Mirror finish silver
ES0840	NPT S.H.A.P.E.	Soft Hand Extender Base

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Claira™ C3 Non-Phthalate Color Boosters (continued)

NON-PHTHALATE ADDITIVES AND MODIFIERS

PRODUCT	DESCRIPTION	USAGE
M00004	LIQUID THICKENER	Add 1 to 2.0% to increase viscosity
M00009	QUICK FLASH ADDITIVE	Use up 10% for quick flash
M00010	POWDER THICKENER	Add 0.25 to 0.50% to raise viscosity
M00023	FLAME RETARDANT ADDITIVE	Add 7.5 to 10% to retard flame of NPT plastisol ink
M00047	RELEASE AGENT	*Add up to 10% to Claira ink for foil release
EA0001	NPT FIBERBOND	3.5% for fibrillation & 7.5% for adhesion to nylon
EA0005	NPT VISCOSITY REDUCER	1.0 to 3.0% to reduce viscosity and tack
EA0014	TRANSFER ADHESIVE POWDER	Sprinkle coat wet transfer prints before gel
EA0015	NPT DULLING PASTE/ SUEDE ADDITIVE	2% for matte finish-15% to create Suede
EA0055	NPT PUFF ADDITIVE	Use at up to 15% to create a puff ink.

*** Adding Release Agent to plastisol inks will increase the likelihood of Fibrillation and Crocking. Test each application before proceeding to make production runs by Wash testing and Crock testing.**