

Product: Enamelux

Series: C28™

DESCRIPTION: C28 Enamelux is a synthetic enamel ink series formulated to provide reduced air-drying times while maintaining outstanding flexibility and good outdoor performance under most climatic conditions when printed onto substrates designed for exterior use.

C28 yields a durable, glossy ink film suitable for a wide variety of non-absorbent substrates ranging from coated boards to metals and glass. In addition, its inclusion in the ColorPlus® Ink System provides printers with the most accurate color-matching system available among enamel screenprinting ink systems.

SUBSTRATES AND APPLICATIONS: Most coated metals, ceramics, pre-treated polyethylene, glass and some plastics, including many polystyrenes. The ink may be printed on paper but will maintain its gloss best on coated papers and boards. It is suitable for outdoor and indoor signage, displays, novelties, bottles and containers.

NOTE: Pretest all substrates prior to production run.

NOTE: The outdoor performance of C28 will depend to a large extent on the durability of the actual substrate onto which it is printed, along with the level of adhesion achievable on that substrate, and the type of outdoor display. C28 is a general purpose ink suitable for a variety of exterior applications, but outdoor durability must be verified prior to use.

OPACITY AND MILEAGE: Monopigmented colors are translucent, and were formulated for maximum color accuracy and cleanliness. Color-matches can be adjusted for opacity by the addition of C28-S105 Blending White.

Average mileage is 1600 square feet/gal. when printed through a 230/inch mesh, depending on printing variables.

SCREEN MESH: 190-230/inch monofilament polyester mesh. Sun Chemical has the mesh best suited for your particular printing requirements. Contact your local Sun representative for details.

STENCIL: Direct photoemulsion, capillary film or other solvent resistant stencil.

SQUEEGEE: All types depending upon application. Sun Chemical has the best squeegee for your particular application. Contact your local Sun representative for recommendations.

MODIFICATION: C28 Enamelux inks can typically be reduced to a maximum of 20% by weight. ET-28 Reducer is suitable for most working conditions, but part or all of the reduction may be made with ST-327 Retarder if slower drying is required. C28-S199 Mixing Clear may be used to reduce color strength, or as a metallic mixing base. Overprinting of the final print may be done with C28-S199 Mixing Clear.

DRYING: C28 Enamelux can be air-dried to the touch in approximately 2 hours, depending on ambient conditions. Full cure of the product usually requires 24 hours. Enamelux can be baked in convection ovens for faster processing. Average oven times range from 10 minutes at 150°F to 3 minutes at 300°F, depending on ink-film thickness, ink modification and oven design.

WASH-UP: C28 Enamelux may be cleaned from screens and processing equipment with ET-28 or any suitable screen wash, such as VL Wash. Sun Chemical has a variety of wash-ups as well as ECO friendly screen washes available for your particular needs. Contact us for all of your pre and post-press chemical requirements.

HEALTH AND SAFETY: As with all inks, gloves and safety goggles should be used when handling this product. For more complete information, refer to the relevant Material Safety Data Sheet.

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ColorPlus® Monopigmented Colors:		Standard Products:	
C28-Y30	GS Yellow	C28-S103	Opaque White
C28-Y50	RS Yellow		
C28-050	Orange	Modifiers:	
C28-M121	YS Red	ET-28	Reducer
C28-M125	BS Red	ST-327	Retarder
C28-M141	YS Green	In accordance with information received from suppliers, the full C28 series is formulated without heavy metals and complies with: 16 CFR, Part 1303; ANSI Z66.1-1964; ASTM F 963; CONEG packaging regulations; EC Packaging Waste Directive EC/94/62; EN71, section 3; RoHS 2002/95/EC; WEEE 2002/96/EC; E2003/11/EC.	
C28-M149	BS Green		
C28-M155	RS Blue		
C28-M159	GS Blue		
C28-M181	Cerise		
C28-M183	Magenta		
C28-M185	Violet		
C28-S105	Blending White		
C28-S170	Blending Black		
C28-S199	Mixing Clear		

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