

Direct Emulsions

Sensitizer	Relative Exposure Speed ¹	Product Name	Application	Color	Solids	Viscosity (sensitized) cps @ 25° C	Pot Life (sensitized)	Solvent-Based Ink	UV Ink	Plastisol Ink	Water-Based Ink ²	Discharge Ink ²	Special Applications, Properties, Remarks
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Diazo	1.2X	KIWOCOL® 225 WR	Textile	Violet	42%	5,000	4-6 weeks	n/a	n/a	Excellent	Excellent	Excellent	Economical. Plastisol and water resistant textile applications.
	1.2X	KIWOCOL® 300 WR	Textile	Violet	40%	6,000	4-6 weeks	n/a	n/a	Excellent	Excellent	Excellent	Same as above. Not for use with phthalate free plastisol.

Diazo-photopolymer - Two-Component Dual-Cure	1X	KIWOCOL® POLY-PLUS SRX	Industrial Electronics	Blue	38%	6,000	3-5 weeks	Excellent	Excellent	Excellent	Very Good	Good	High tolerance graphics, printed electronics, industrial.
	1X	KIWOCOL® POLY-PLUS S	Graphic Industrial Textile	Blue	38%	6,000	4-6 weeks	Excellent	Excellent	Excellent	n/a	n/a	Most popular, high quality, multi-purpose (industrial, graphics, textile).
	1X	KIWOCOL® POLY-PLUS SWR	Textile Graphic	Blue or Red	38%	5,000	4-6 weeks	Excellent	Excellent	Excellent	Graphic	n/a	High quality general purpose emulsion available in blue or red.
	1X	KIWOCOL® POL-PLUS HWR	Textile Glass Ceramic	Blue	43%	5,000	4-6 weeks	Good	Very Good	Excellent	Excellent	Excellent	High water and mechanical resistance. Permanent stencil with use of HARDENER K.
	.8X	KIWOCOL® POLY-PLUS Z	Textile Graphic	Blue	40%	2,800	4-6 weeks	Excellent	Excellent	Excellent	Graphic	n/a	Most competitively priced high-end emulsion. Easy coating, anti-static and slip component improves ink release, snap-off.
	1X	KIWOCOL® POLY-PLUS ER (tack free)	Textile Graphic	Blue	42%	3,000	4-6 weeks	Excellent	Excellent	Excellent	n/a	n/a	Easiest reclaiming, economical, tack free, ink jet media compatible, no latent image.
	1X	KIWOCOL® QUANTUM II	Textile Graphic	Light Blue	40%	5,000	4-6 weeks	Very Good	Very Good	Excellent	Very Good	Very Good	Economical, universal textile emulsion for all the newest ink systems.
	3X	POLYCOL® VERSA-TEX PLUS	Textile	Red	42%	8,000	4-6 weeks	Acceptable	Good	Excellent	Excellent	Excellent	Versatile textile emulsion with enhanced resistance to most water-base and discharge inks.

SBQ-photopolymer-One-Component	8X	POLYCOL® ONE-COAT	Textile	Blue	44%	8,000	1 year	n/a	n/a	Excellent	Excellent ²	Excellent ²	High solids, quick build-up, fast exposing, textile inks.
	8X	POLYCOL® DISCHARGE	Textile	Blue	44%	6,500	1 year	n/a	n/a	Excellent	Excellent ²	Excellent ²	Same as above with enhanced water resistance.
	4X	POLYCOL® CROSSOVER	Textile Graphic	Red	38%	10,000	1 year	Good	Very Good	Excellent	n/a	n/a	Most popular, best value high-end SBQ textile emulsion, easy reclaiming.
	4X	POLYCOL® S	Graphic Textile	Blue	38%	5,500	1 year	Good	Very Good	Excellent	n/a	n/a	Best value high-end graphics SBQ emulsion.
	6X	POLYCOL® VERSA-TEX	Textile	Red	45%	13,000	1 year	Acceptable	Good	Excellent	Excellent ²	Excellent ²	High solids and viscosity, quick build-up, fast exposing, easy to develop and reclaim.
	6X	POLYCOL® THICK-COAT	Thick Stencil	Light Red	51%	60,000	1 year	Acceptable	Good	Excellent	Excellent ²	Excellent ²	Very high solids and viscosity, good for high stencil build-up.
	8X	POLYCOL® XXL	Ultra-Thick Stencil	Light Blue	54%	>100,000	1 year	Acceptable	Good	Excellent	Very Good	n/a	Highest viscosity and solids for <i>extremely</i> thick stencil build-up.
	12X	POLYCOL® LIGHT-SCRIBE	CTS ³	Light Blue	32%	6,000	1 year	Excellent	Excellent	Excellent	Good	n/a	Dual resistant, fastest exposing.
	10X	POLYCOL® LIGHT-SCRIBE ER	CTS ³	Red	32%	6,000	1 year	Excellent	Excellent	Excellent	n/a	n/a	Easiest Reclaiming, fast exposing, no latent image, tack free.
	3X	POLYCOL® LIGHT-SCRIBE HYBRID	CTS ³	Blue	38%	5,500	1 year	Excellent	Excellent	Excellent	n/a	n/a	Highest resolution and latitude CTS emulsion.

¹ Exposure speed of typical diazo-photopolymer emulsion is used as a baseline reference using a factor of 1X. Use the multiplying factor for each emulsion for estimating approximate relative exposure speeds. e.g. 4X is four times faster than 1X.

² For best resistance use diazo additive, post exposure, and stencil hardener when printing water-based and discharge inks. For more info see article [Stencil Making Tips for Water-Base & Discharge Inks](#) available online at [www.kiwo.com](#).

³CTS refers to light-based computer-to-screen imaging systems that image and expose in a single step.

This table provides a general product overview and should not be interpreted as an absolute recommendation for any specific application. Customer must test product suitability for each application.

Contact KIWO technical service department for specific recommendations for your application.