

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 |
|---------------------------------------------|--------------------------------------|-----------------------------------|----------------------------|-------------|--------|-----------------------------------|-----------------------|-------------------|-----------|---------------|------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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](http://www.kiwo.com) 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.