

ADVANCE 20

Dual Cure Type Direct Emulsion



MURAKAMI

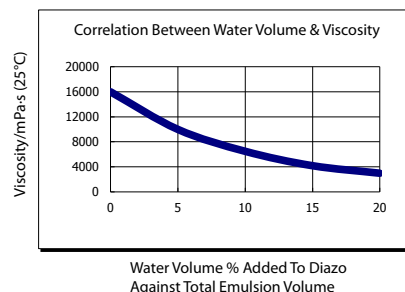
745 Monterey Pass Rd. Monterey Park, CA 91754
phone (323) 980-0662 www.murakamiscreen.com

Features / Application:

- Fast exposure premium dual cure type emulsion.
- Excellent durability, superior solvent resistance.
- Easy to reclaim, extended re-use of screen.
- Superior resolution, sharp image definition for finest image reproduction.
- Suitable for fine line graphic images, PCB patterns, nameplates and ceramic tiles.
- Suitable for solvent based inks and UV inks.

Specifications:

- Viscosity: Approx. 15,000 mPa·s (25°C)
- Solids Contents: Approx. 38.0%
- Packaging: 1 Gallon (U.S.), 5 Gallon (U.S.) & Drum Sizes Available.



Solvent Resistance Rating:

Solvent	Rating	Solvent	Rating
Water	Fair	Methyl Cellosolve	Good
Toluene	Excellent	Isophoron	Excellent
Acetone	Good	Ethylene Glycol Dimethyl Ether	Good
Ethyl Acetate	Excellent	Isopropyl Alcohol	Excellent
Butylcellosolve	Excellent	Methyl Ethyl Ketone	Good
N-Methyl Pyrrolidone(NMP)	Poor	Butyl Carbitol Acetate	Excellent
Xylene	Excellent	Terpineol	Excellent
Cyclohexanone	Excellent	Methanol	Fair

*24 Hour Swelling/Absorption Test Results

Instructions:

- Wash the screen mesh and remove grease and foreign substances with MSP cleanser.
- Dissolve provided diazo with 10% water of emulsion volume. Do not use warm water.
- Mix diazo solution into emulsion.
- Prior to use, let mixed emulsions sit for one day. For immediate use, filter emulsion with 100/cm or higher.
- Coat emulsion slowly in order to prevent air bubbles from forming.
- Dry coated screen completely at temperatures up to 40°C (104°F) before exposure.

Remarks:

- Keep the mixed emulsion in a cool and UV light safe area and use it within 1 week.
- It is recommended to filter the emulsion with screen mesh before returning from coating trough to remove any dust, foreign substances and/or air bubbles.

Exposure Data:

Screen Mesh/Color	E.O.M. (μm)	3kW Metal Halide Lamp UV42 Intensity: 12mW/cm ²
Polyester 150/48 White	2-3 μm	40-55 Seconds
	15 μm	90-120 Seconds
Polyester 250/40 Yellow	2-3 μm	55-70 Seconds
	15 μm	120-150 Seconds
Polyester 300/34 Yellow	10 μm	60-90 Seconds
Stainless Wire Mesh 250/30	20 μm	210-240 Seconds
Stainless Wire Mesh 400/23	10 μm	90-120 Seconds

* This is a guideline only. Please use an exposure calculator to determine the correct exposure time.

SEM:

