



A PHOTOPOLYMER EMULSION FROM **DAVIS**

PURPLE TWO is 2 textile emulsions in one bucket

- Ultra Fast Exposure
- Easy to Reclaim
- Great Detail
- Fast Drying
- Fast Stencil build up

PURPLE TWO is ready to use right out of the bucket for all plastisol inks including the new wave of Phthalate-free and the new Evolution 2 series PVC-free textile inks.

Right Out Of The Bucket (No Diazo Needed)

- Plastisol Inks
- Evolution 2 Inks
- UV Inks
- Solvent Based Inks

With the addition of our **PURPLE TWO** Diazo sensitizer, **PURPLE TWO** is also a great emulsion for water based and dye discharge ink systems.

PURPLE TWO is a ready to use, ultra-fast exposing SBQ-Photopolymer emulsion, formulated to shorten stencil making time (coating, drying, and exposure). It's high solids content (43%) allows for a thick build per coat (reducing the number of coats over conventional emulsions) and results in better mesh bridging on coarse screens. It's high viscosity provides for good coating control.

PURPLE TWO
Does It All!



Davis International, Inc.

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Ensure proper dryness levels before exposure.

BASE EXPOSURE TABLE

(For 110 threads/in. white polyester or nylon at 40 in.(100cm.) exposure distance).

LIGHT SOURCE	COATING METHOD		
	1 / 1	2 / 2	
Carbon Arc	15 amps	212 sec.	10 min.
	30 amps	106 sec.	316 sec.
	40 amps	80 sec.	238 sec.
	60 amps	52 sec.	158 sec.
	110 amps	28 sec.	88 sec.
	Metal Halide	1000 watts	42 sec.
2000 watts		24 sec.	66 sec.
3000 watts		16 sec.	44 sec.
4000 watts		12 sec.	34 sec.
5000 watts		10 sec.	26 sec.
Pulsed Xenon		2000 watts	2 min.
	5000 watts	48 sec.	146 sec.
	8000 watts	30 sec.	90 sec.
	Mercury Vapor	125 watts	8 min.
1000 watts		64 sec.	180 sec.
2000 watts		30 sec.	90 sec.
4000 watts		16 sec.	44 sec.
Fluorescent Tubes*		40 watts	160 sec.

*Base exposure times are for unfiltered black light, or super diazo blue tubes at 4 - 6 in. (10 - 15 cm.) exposure distance. For Plant-light, filtered black light, and "daylight" fluorescent tubes, use at least double the exposure time.

EXPOSURE VARIABLES

Multiply the above base exposure times by *all* factors and variables that apply.

Fabric

metal fabric	2.0-4.0
dyed fabric	1.5-2.0
finer than 110T/in	0.5-0.9
coarser than 110T/in	1.1-2.0
high heat and humidity	1.3-1.8

Exposures will tend to be approximately 20% - 25% longer with sensitizer. Increased resolution will be seen in detail areas.

Distance

20 inches /50 cm.	0.25	44 inches /110 cm.	1.21
24 inches /60 cm.	0.36	48 inches /120 cm.	1.44
28 inches /70 cm.	0.49	52 inches /130 cm.	1.69
32 inches /80 cm.	0.64	56 inches /140 cm.	1.95
36 inches /90 cm.	0.81	60 inches /150 cm.	2.25
40 inches /100 cm.	1.00	72 inches /180 cm.	3.2

A few thoughts about all emulsions in general

-The thicker the emulsion coating on a screen, the longer it takes to expose completely.

-If you use different mesh counts, you should have different exposure times.

-When in high humidity conditions, coated screens may take extra time to dry thoroughly.

-A coated screen can feel dry to the touch and still not be completely dry. The only fool proof way to know if it's dry, is to use a moisture probe or an emulsion thickness tester.

-Moisture will swell the emulsion, which makes it thicker, which takes longer to expose, holds less detail, and also makes it harder to reclaim.

-When the emulsion isn't completely dry there is still moisture in it. Inkjet film has a coating on it to hold as much ink (moisture) as it can. Be very careful as inkjet film can take a long time to dry. If both the emulsion and black of the film have moisture in them, they might stick together. When this happens, some black will likely come off the film and possibly ruin the stencil.

PURPLE TWO

as a water based & dye discharge emulsion

Following the directions on the diazo bottle, add the diazo sensitizer to the emulsion, mix thoroughly, and wait at least one hour until the bubbles settle before coating. It will coat a little different as it's a little thinner with the sensitizer added. Once sensitized it has a shelf life of 4 - 6 weeks.



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P/N DIPUR2GAL 1 Gallon Emulsion
P/N DIPUR2D C10-D Diazo Sensitizer (for 1 gallon)