

# SPIKE™

## UDC 420D

Developed in conjunction with Davis International, 1225 Clifford Avenue, Rochester, NY 14621

## SPIKE UDC 420D

- Fast exposure with excellent image quality
- Hard, durable stencils, resistant to the widest range of inks and additives
- Superior mesh adhesion
- Lightning fast washout and easy reclaim
- High viscosity allows coating on low or high mesh counts

SPIKE UDC-420D dual cure emulsion is designed for the widest range of imaging applications.

***SPIKE UDC-420D** direct emulsion allows screen makers to obtain remarkable image quality and exceptionally durable stencils. In addition, SPIKE UDC-420D's high viscosity allows for excellent coating on low or high mesh counts. For use with water, solvent, UV and plastisol based inks.*



### MATERIALS

#### REQUIRED

Exposure unit  
Washout sink  
Clean work area  
Scoop coater

#### RECOMMENDED

Drying cabinet  
Pressure washer  
Chromaline Exposure Calculator

### CHEMICALS

#### REQUIRED

Chroma/Clean™  
mesh degreaser

Chroma/Strip™  
screen reclaimer

#### RECOMMENDED

Chroma/Haze™  
haze remover

Chroma/Brade™  
mesh abradant

### SAFETY AND HANDLING

Avoid contact with skin and eyes. Refer to MSDS for further information.

### STANDARD SIZES

Quart, gallon, 3.5 gallon, 50 gal. drum.

### SPECIFICATIONS

Appearance: Purple  
Solids: 36% (sensitized)  
Viscosity: 5360 CPS (sensitized)  
Other: Available upon request

### STORAGE

**Shelf life** for sensitized SPIKE UDC-420D emulsion is 4 to 6 weeks at room temperature (60 to 80°F). To maximize sensitized shelf life use only distilled water to dissolve diazo sensitizer.

**Protect from freezing.** SPIKE UDC-420D is not freeze/thaw stable.

**Coated, unexposed screens** can be stored as long as one month in a clean, cool, dry and completely dark area.

**Expiration date.** Always check the expiration date on sensitizer bottle to assure freshness.



## Chromaline Screen Print Products

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**INSTRUCTIONS**

**DEGREASE**

Using Chroma/Clean™ mesh degreaser, work up a lather on both sides of mesh. Flood screen and frame thoroughly with garden type hose, then dry.

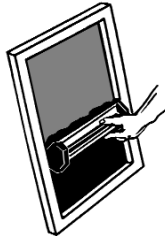


**MIX**

Mix emulsion and sensitizer according to instructions on bottle. Let emulsion stand at least two hours before using.

**COAT**

Fill scoop coater with room temperature emulsion. Slowly apply first coat to print side. Then coat squeegee side with one to three coats depending upon thickness required. If thicker stencil is required, additional coats may be applied to print side after initial drying of stencil. Be sure to dry thoroughly between coats.

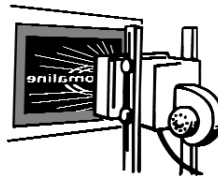


**DRY**

Thoroughly dry screen in horizontal position, print side down, using a dark, clean drying cabinet. Temperature should not exceed 150°F (40°C).

**EXPOSE**

Place emulsion side of photopositive in contact with print side of screen.



**DEVELOP**

Gently spray both sides of screen with tepid water, wait 30 seconds then gently wash print side of the screen until image is fully open. Rinse both sides thoroughly. Dry screen completely and you are ready to print.



**RECLAIM**

Apply Chroma/Strip™ screen reclaimer to both sides of screen. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let it work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with garden type hose, thoroughly flooding screen and frame.



**EXPOSURE GUIDELINES**

Note: Exposure times are suggested only as a guide. Use the Chromaline Exposure Calculator to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions.

**SUGGESTED MINIMUM EXPOSURE GUIDELINES**

Mesh	Time
158 mesh	60 sec.
230 mesh	45 sec.
305 mesh	30 sec.

Exposure times were set using a VNH unit. All screen mesh was orange in color. Screens were coated wet on wet once on print side and twice on squeegee side.

**AVOID FAILURE:** Dual cure emulsions have a very wide exposure latitude. Underexposed stencils often appear acceptable, but premature breakdown can occur on the press. When determining exposure speed, always overexpose your test stencil, then reduce exposure time until acceptable image quality is achieved. This will help assure good durability.

For Technical Service  
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