



## #420 HP PREMIUM HARDDOT CAMERA FILM

### Product Application

#1 Network #420 HP Premium is a 4th generation HardDot camera film. #420 consistently produces sharp edged linework and halftones of the highest quality.

### Safelight

As a orthochromatic film, #420 is processed under standard Series 1A red safelight, or red filter sleeves with florescent tubes.

### Suggested Exposure (Linework at Same Size)

Quartz Camera Lamps	F-22	15-20 Seconds
Pulsed Xenon Camera Lamps	F-32	10-15 Seconds

On a 12 step camera grey scale, expose #420 to a Solid step 4. Proper contrast of #420 is indicated with a light grey in step 5. Main exposure for halftones, is approximately 3 times the established linework exposure. A normal flash test will determine correct exposure for shadow areas of halftones.

### Developing \*

#### Machine Processing

Deep Tank (Over 7 gal.)

Time 35-60 Seconds  
Temp 80-90°F (26-32°C)

Shallow Tank (7 or less gal.)

Time 35-40 Seconds  
Temp 95-100°F (35-38°C)

### Replenishment Rates

Developer: 45ml per square foot (1.53 oz.)

Fixer: 35ml per square foot (1.2 oz.)

#1 Network Universal Fixer Concentrate,  
3100 Fixer recommended with hardener.

**IMPORTANT:** HardDot films must be processed in a **recommended "HD"** developer diluted 1-part concentrate to 2-parts water. It is also important to replenish at the recommended rates.

Additional "anti-oxidation" replenishment may be required. Total replenishment should equal **at least** 1/2 of the volume in the processor tank per week in "low load" situations.

Departure from these instructions may result in "pepper" or thin "pressure lines". Both artifacts are caused by a chemical imbalance. If pepper is encountered, you must dump the developer and increase replenishment.

\*For optimum results, process in 4th generation chemistry diluted with 2 parts water.:

#1 Network 2100 HD\* Developer  
#1 Network Rapid HD\* Developer  
Kodak RA 2000  
Fuji Forte HQ

\*HD refers to HardDot when mixed 1:2.

These developers are also rapid access developer, when mixed 1:3 or 1:4.