

## HARDENER HP

### 1. DESCRIPTION

HARDENER HP is a chemical hardener used to increase the water resistance of photoemulsions like KIWOCOL 3, 16, 31, and 221. Depending on the chemical structure of the emulsion, HARDENER HP may produce a water resistant stencil. See Technical Data Sheet for each emulsion.

### 2. APPLICATION

Apply HARDENER HP generously with a brush or rag to both sides of the imaged, dry screen. Allow for the hardener to react a few minutes. This will allow for the hardener to evaporate from the open areas of the screen and for the emulsion to absorb the hardener.

Drying at elevated temperatures will result in "heat setting" that will increase water resistance. A high "setting temperature" and long "setting time", will produce higher water resistance.

Recommended drying/thermosetting:

1 hour at 100° Fahrenheit / 40° Celsius  
24 hours at 68° Fahrenheit or room temperature

Hardener residue in the open areas of the screen can be removed with solvents or will open up after a few prints.

### 3. SUITABILITY

HARDENER HP can be used on the majority of KIWO emulsions. Good results have been achieved with KIWOCOL 3, 13S, 16, 221, and Poly-Plus S.

### 4. PHYSICAL DATA

Color: Blue

Consistency: Liquid

Shelflife: 1 year at 68 degrees Fahrenheit  
(20 degrees Celsius)

Flash point: Not applicable

TLV: N/A

VOC: N/A

HMIS rating: Health - 1  
Flammability - 0  
Reactivity - 0

### 5. PERSONAL PROTECTION

It is recommended to wear protective glasses and gloves. See Material Safety Data Sheet for additional information.

### 6. ENVIRONMENTAL PROTECTION

HARDENER HP solutions can be eliminated through biological decomposition in adapted waste water treatment plants. The working solution can generally be emptied into the drains. Consult local authorities for local regulations.

### 7. PACKAGING

1 quart, 1 gallon, 5 gallon containers, 32 gallon drums

### 8. ADDITIONAL INFORMATION

For additional product information, please visit our web site at [www.kiwo.com](http://www.kiwo.com). For further information contact your KIWO distributor or KIWO direct.

Thank you for choosing **KIWO**.