

## HARDENER WR (reclaimable)

### 1. DESCRIPTION

HARDENER WR is a chemical hardener used to increase the water resistance of photo emulsions like KIWOCOL 225WR, KIWOCOL 300 WR, POLYCOL ONE-COAT, POLYCOL DISCHARGE, and other water resistant stencil systems. Depending on the chemical structure of the emulsion, HARDENER WR may produce a more or less water resistant stencil. See Technical Information Sheet for each emulsion.

### 2. APPLICATION

Apply HARDENER WR generously with a sponge or rag to both sides of the imaged, dry, or slightly damp screen. Allow for the hardener to react for 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.

Once air drying is complete, further 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 WR can be used on the majority of KIWO emulsions. Good results have been achieved with the KIWO emulsions mentioned in the description above.

### 4. PHYSICAL DATA

Color:	Light Blue-Green
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 WR 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, 55-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**.