

HARDENER K

1. DESCRIPTION

HARDENER K is a chemical hardener used to increase the water resistance of photoemulsions like KIWOCOL POLY-PLUS HWR. Depending on the chemical structure of the emulsion, HARDENER K may produce an absolute water-proof stencil that will not be reclaimable. Suitability for use is dependent on the formulation of the emulsion. See Technical Information for each emulsion.

2. APPLICATION

Apply HARDENER K generously with a brush or rag to both sides of the imaged, dry screen. Allow for the hardener to evaporate at room temperature, but don't force-dry with fans. The drying time depends on the environment and may take up to an hour. This will allow for the hardener to evaporate from the open areas of the screen and for the emulsion to absorb the hardener.

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 thermosetting:

1 hour at 140° Fahrenheit / 60° Celsius
3 hours 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

Although HARDENER K is specifically designed to harden KIWOCOL POLY-PLUS HWR, it can also be used on the majority of KIWO emulsions. Good results have been achieved with POLYCOL AQUA, and KIWOCOL POLY-PLUS SRX.

When using HARDENER K on emulsions other than HWR brittleness can occur.

4. PHYSICAL DATA

Color:	Red
Consistency:	Liquid
Shelflife:	1 year at 68 degrees Fahrenheit (20 degrees Celsius)
Flash point:	Not applicable
TLV:	Hydrochloric acid, TWA CL 5 ppm
VOC:	N/A
pH value:	9
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 K 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 US quart, 1 US gallon, 5 US gallon containers

8. ADDITIONAL INFORMATION

For additional product information, please visit our web site at www.kiwo.com. For further information contact your KIWO distributor or KIWO direct.

Thank you for choosing **KIWO**.

This data sheet is for your information, a legally binding guarantee of the product's suitability for a peculiar application cannot be derived. No responsibilities can be undertaken for occurring damages. Our products are subject to a continuous production and quality control and leave our factory in perfect condition.