

HARDENER D

LIQUID STENCIL HARDENER THAT IMPROVES THE DURABILITY AND WATER RESISTANCE OF QT-DISCHARGE EMULSION

Hardener D is a liquid stencil hardener formulated for use with **QT-DISCHARGE** direct emulsion to improve its durability and water resistance. **Hardener D** can be used with other textile emulsions but will make stencil removal more difficult and may embrittle the stencil.

INSTRUCTIONS

Step 1: APPLY HARDENER D

Wear gloves, goggles, and protective clothing. Make a stencil with **QT-DISCHARGE** direct emulsion. Dry the screen and stencil. Apply **Hardener D** to both sides of the screen with a soft-bristled brush, a sponge, or a work rag.

Step 2: ALLOW HARDENER D TO DRY

Let **Hardener D** dry at room temperature, without the use of a fan. Drying time will depend on the relative humidity, but may take up to one hour under high humidity conditions. Thorough drying allows time for the **QT-DISCHARGE** stencil to absorb the **Hardener D** and for **Hardener D** to evaporate from the open areas of the stencil. Any remaining **Hardener D** residue in open areas of the screen will usually open up after several prints, or can be removed with solvents.

OPTIONAL ADDITIONAL DRYING TIME

The water resistance of **QT-DISCHARGE** will be improved by allowing the screen to dry for a full 24 hours at room temperature, $\approx 68^{\circ}\text{F}$. (20°C .).

OPTIONAL HEAT CURING

Drying **Hardener D** in heat will increase its water resistance. The higher the heat and the longer the dwell time, the greater will be the water resistance of the stencil. Suggested settings/dwell times:

100° F. (40° C.) for 3 hours;

140° F. (60° C.) for 1 hour

CAUTION

Avoid contact with skin and eyes. Wear gloves, goggles, and protective clothing.

PRODUCT DATA

Flash point: not applicable

Color: red

VOC: not applicable

pH value: 9

TLV: Hydrochloric acid, TWA CL 5 ppm

HMIS ratings: Health: 1

Flammability: 0

Reactivity: 0

Shelf life: 1 year at 68° F. (20° C.)

Disposal: **Hardener D** can generally be washed down drains and is biodegradable in adapted waste-water treatment facilities, but this should be verified with a review of the Material Safety Data Sheet with local authorities.

FORMATS

Hardener D is available in quart (946 cc.), U.S. gallon (3.78 lt.), 5 U.S. gallon (18.92 lt.), and 50 U.S. gallon (189.25 lt.) units. Quart units are packaged 12 per carton; U.S. gallon units are packaged 4 per carton; 5 and 50 U.S. gallon units are packaged individually.

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