



WR-3 Water Resist Emulsion

Chemical Consultants, Inc.

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Applications

Diazo sensitized emulsion for Plastisol, Discharge, and Water Based inks.

Physical Properties

- ☀ Pink Colored, also available in Clear
- ☀ Virtually pinhole and fish eye free
- ☀ Extremely Durable for long print runs
- ☀ Outstanding resolution and definition
- ☀ 39% solids

Handling

Handle under yellow safelight conditions.

Sensitizing

Mix sensitizer according to the instructions on the bottle. Pour the solution into the emulsion and mix thoroughly. Let the emulsion stand for 2 hours to let the air bubbles release from the emulsion.

Mesh Preparation

It is important to have a clean dry screen before you apply the emulsion. To achieve this use a good degreaser available from CCI.

Coating Procedure

Use a clean coating trough that has a smooth edge without nicks or burrs. Coating environment should be in a clean light safe area with 65% humidity level.

1. Apply one or two coats of emulsion to the print side.
2. Reverse the screen and apply one or two coats to the squeegee side.

To achieve user specific results, additional coats may be used.

Drying

Dry the screen in a horizontal position with the print side down in a clean dry room. Follow these guidelines to ensure complete drying:

- ☀ 86° to 104° F (30° to 40° C)
- ☀ 30% to 50% relative humidity
- ☀ Good air circulation

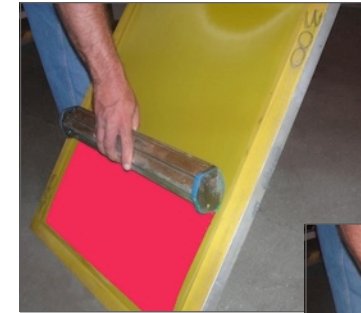
*To achieve the desired humidity levels the use of a dehumidifier is recommended.

Exposure

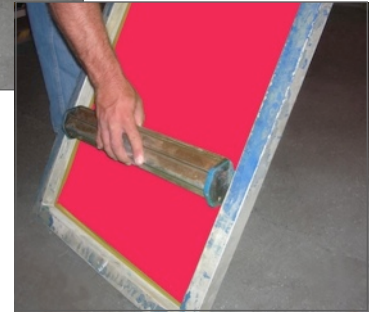
For best results use an exposure calculator to determine the exact exposure time. Proper exposure is determined by a number of conditions such as clean film positives, mesh color, emulsion type, emulsion thickness and exposure unit type.

APPROXIMATE EXPOSURE TIMES		
MESH	COLOR	LIGHT UNITS
86	WHITE	310
110	WHITE	290
200	YELLOW	220
300	YELLOW	170
350	YELLOW	150

Note: Above times are based on using a 5KW Metal Halide Lamp.



Step 1.
Print Side



Step 2.
Squeegee Side

Washout

Gently spray both sides of the screen with water. Wait a moment to allow the emulsion to soften. Wash print side of the screen until the image is fully open. Rinse both sides thoroughly and dry. A vacuum can be used to accelerate drying.

Reclaiming

Removing the emulsion is simple with one of CCI's ready to use or concentrated emulsion removers.

Storage

Store the emulsion in a cool dry place. Unsensitized emulsion has a shelf of 6 months when stored appropriately. Sensitized emulsion will last up to 45 days with good results when stored correctly.

- ☀ 59° to 77° F (15° to 25° C)
- ☀ 30% to 50% relative humidity

To Order Call (800)753-5095