

DIAZO SENSITIZER

For use with diazo based, dual-cure, and triple-cure emulsions

Properly mixing your diazo solution into diazo / dual-cure emulsions is essential to prepare the emulsion for coating screens. Follow these step-by-step instructions to ensure the best results.

MATERIALS NEEDED

- Diazo sensitizer and compatible emulsion
- Distilled or filtered water (room temperature)
- Mixing stick or paddle (wood, plastic or stainless steel)
- Gloves (optional, for safety)
- Clean, light-safe workspace
- Permanent marker for labeling

SAFETY AND HANDLING

Refer to product SDS.

STANDARD SIZES

Magna/Cure Diazo - 3 gram bottle, 12 gram bottle, 42 gram bottle
CP2/CP Tex Diazo - 3.5 gram bottle, 14 gram bottle, 49 gram bottle

STORAGE

Diazo Sensitizer should be stored in a dry, cool environment. High humidity can cause clumping and degrade the powder's quality.

In adverse conditions, you may remove the small bottle of powdered diazo from the emulsion packaging and store it in a refrigerator or freezer.

IMPORTANT NOTE: For hot & humid environments, please protect your diazo powder prior to use. Avoid Heat. High temperatures can degrade the diazo powder, reducing its sensitivity and shelf life. Diazo should be stored at 10-22°C.



TRIPLE CURE APPLICATION

Diazo can be added to our Hyrdo-X hybrid photo polymer to create a triple cure emulsion at these quantities.

- Emulsion Quart: 3 gram bottle of diazo
- Emulsion Gallon: 12 gram bottle of diazo
- 3.5 emulsion Gallon: 42 gram bottle of diazo

Diazo Sensitizer



INSTRUCTIONS

STEP 1: SOLUTION PREPARATION

1. Fill the diazo bottle to the neck of the bottle with clean, distilled water.
2. Cap the bottle tightly and shake thoroughly to dissolve the powder completely.
3. Ensure no granules are left at the bottom of the bottle. (It might take a couple of minutes of shaking.)

STEP 2: EMULSION PREPARATION

1. Open the emulsion container.
2. Using a clean mixing stick or paddle, gently stir the emulsion. This ensures even consistency and helps prevent separation.
Note: Do not add diazo to unstirred emulsion. Always stir the emulsion before adding diazo to ensure it's evenly mixed and free of separation.
3. Make sure the workspace is light-safe. Keep the emulsion and diazo solution in a dimly lit or light-safe environment to prevent premature exposure.

STEP 3: ADDING DIAZO SENSITIZER

1. Pour in the diazo solution. Carefully pour the entire contents of the prepared diazo solution into the emulsion container. Use a spatula or the diazo bottle to scrape out any remaining sensitizer.
2. Stir thoroughly. Mix the emulsion and diazo together using a clean mixing stick or paddle. Stir slowly and evenly for at least 2-3 minutes. Scrape the sides and bottom of the container to ensure the diazo is evenly distributed.

STEP 4: DEGASSING

De-bubble the emulsion. Let the emulsion sit for at least 1-2 hours after mixing, preferably overnight. This allows any air bubbles introduced during stirring to dissipate, ensuring a smooth application when coating screens.

STEP 5: LABEL

Label the container. Write the date of mixing on the emulsion container using a permanent marker. This will help you track its shelf life.

STEP 6: STORE

Store properly. Store the sensitized emulsion in a light-safe container at 40°F to 70°F. Keep it refrigerated if possible for a longer shelf life, but allow it to return to room temperature before use.

TIPS FOR SUCCESS

- Use gloves to avoid skin contact with diazo or emulsion.
- Be aware of shelf life. Sensitized emulsions typically last **4-6 weeks** at room temperature or up to **3 months** in a refrigerator. If stored cold, let warm to room temperature prior to use.
- Always stir the emulsion gently before each use to ensure consistency.
- Avoid contamination by using clean tools and containers.

By following these instructions, you can mix your diazo solution into diazo / dual-cure emulsions properly, ensuring excellent screen coating and printing results.



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