



DIAZOL PLUS ULTRA (U017)

Main Characteristics

Type

Two Pack/Blue colour

Sensitizer Type

Powder

Solid content (unsensitized) %

36 %

Instruction for use

- Cut or tear the powder diazo sachet.
- Add the powder sensitizer to the bottle and add water until the bottle is approximately 2/3 full.
- Shake the bottle well until the contents have dissolved.
- Add sensitizer solution emulsion and stir well before use.
- Leave the emulsion to de-gas for 1 hrs before use.

Preparing the Screen

- New screen should be abraded with Screenprep (SPR034) before use for optimum stencil durability.
- Degreasing the screen use Degreaser Plus (P-6419)

Coating

Manual

- Apply one or two coats of Diazol Plus Ultra, wet on wet, to the print side of screen.
- Apply one or two coats of this emulsion, wet on wet, to the squeegee side of screen.
- If a higher build of Diazol Plus Ultra is required extra coats should be applied, wet on wet to the squeegee side.

Automatic

- When using on automatic coating machine, a simultaneous single coat on each side of the screen is recommended.
- If higher builds are required, extra coats should be applied to the squeegee side of the screen.

Drying

Put coated screen in hot air oven with squeegee side up. Do not exceed 40 °C.

Table of Exposure Guide

Light Source	Distance	Length of Exposure Time*
125W HPR Mercury Vapour Lamp	50 cm.	350-370 Seconds
50 Amp Open Carbon Arc	120 cm.	700-740 Seconds
1000W Metal Halide	120 cm.	350-370 Seconds
2000W Metal Halide	120 cm.	165-195 Seconds
3000W Metal Halide	120 cm.	110-135 Seconds
5000W Metal Halide	120 cm.	60-80 Seconds
6000W Metal Halide	120 cm.	50-65 Seconds

* Using 120-34Y Screen Mesh with both sides coated twice with sensitized emulsion.

Developing

Place the screen in washout booth and gently spray both sides, increase the spray pressure slightly. Continue developing until or parts of the image appear clean and sharp.

Spotting

Check for pinholes or blemishes. Spot out with a suitable filler use Screen Filler (22997)

Reclaiming the Screen

- Screenstrip Powder (SST002) thoroughly to both side of the stencil.
- Screenstrip Liquid (SST004) thoroughly to both side of the stencil.

Recommended inks

Solvent based ink and UV based ink.

Caution

Special safelight is not essential, but yellow or weak illumination is desirable.

Features

- Diazo sensitized emulsion.
- Excellent definition and resolution.
- Low Rz value.
- Highly suitable for 4-colour process and high quality graphic printing.

Standard Packing

- Emulsion : 5 Kg. and 1 Kg.
- Sensitizer : 15 g. and 3 g.

Safety and Handling

- Is free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.
- Does not have a flashpoint and is, therefore, exempt from the Highly Flammable Liquid Regulations.
- Should be stored away from children.
- Comprehensive information on *the Safety and Handling of Diazol Plus Ultra* in Chaiyaboon Material Safety Data Sheet.

Storage

- U017 should be stored in as cool a temperature as possible not below 0 °C or over 35 °C.
- Unsensitizer U017 be stores for 36 months.
- Diazo sensitizer should be stored for 12 months.
- Screen coated in advance will last stored at 20 °C and in complete darkness.
- With longer stored of pre-coated screen, the emulsion can absorb moisture from the environment. It is therefore advisable to dry again prior to exposing.

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