



## 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.	700-740 Seconds
50 Amp Open Carbon Arc	120 cm.	350-370 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 : 1 Kg use with sensitizer code A3 (3 g)  
 : 5 Kg use with sensitizer code B15 (15 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 stored 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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