



DIAZOL PLUS HB (U049)

Main Characteristics

Type

Two Pack/Light blue colour

Sensitizer Type

Powder

Solid content (unsensitized) %

47 %

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 HB, 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 HB 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.	585-665 Seconds
50 Amp Open Carbon Arc	120 cm.	1000-1300 Seconds
1000W Metal Halide	120 cm.	585-665 Seconds
2000W Metal Halide	120 cm.	285-335 Seconds
3000W Metal Halide	120 cm.	190-230 Seconds
5000W Metal Halide	120 cm.	115-135 Seconds
6000W Metal Halide	120 cm.	95-115 Seconds

* Using 62-64W 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 Plastisol ink.

Caution

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

Features

- Diazo sensitized highbuild emulsion.
- Excellent latitude, resolution and definition.
- Long print durability.
- For PCB solder maske or high build applications.

Standard Packing

Emulsion : 1 Kg use with sensitizer code A2 (2 g)
 : 5 Kg use with sensitizer code B10 (10 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 HB* in Chaiyaboon Material Safety Data Sheet.

Storage

- U049 should be stored in as cool a temperature as possible not below 0 °C or over 35 °C.
- Unsensitizer U049 be stored for 24 months.
- Diazol 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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