

PLUS 7000

Diazo Sensitised Water & Solvent Resistant Direct Emulsion

DESCRIPTION

PLUS 7000 is a high quality, 34% solids, pigmented aqueous emulsion of water dispersible polymers and monomers, supplied with Diazo powder sensitiser.

Applications

Resistance to a wide range of water, solvent and co-solvent inks makes PLUS 7000 a suitable direct photostencil for most screen printing applications.

PLUS 7000 is particularly recommended for applications where good print durability, print quality and easy removal after printing is required.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Very high print quality, 34% solids. Deep blue/green colour provides excellent colour contrast without compromising see-through. The Diazo dual-cure photochemistry used provides exceptional resistance to solvent based, water based and UV curable inks. The good water resistance also means that PLUS 7000 can be used in areas of high humidity with no softening. Although universally resistant PLUS 7000 can also be decoated using Autostrip.
- Easy and forgiving to use, very good print definition, very tough, can be used with virtually any ink and can be decoated after printing.

WORKING INSTRUCTIONS

Sensitising of Emulsion

Handle the emulsion under yellow fluorescent tubes or low wattage Tungsten light. The product is supplied as a two pack kit comprising the emulsion and powder sensitiser in a sachet.

Mix the two components as follows:



1. Cut the Diazo sachet open using a pair of scissors. Do not open with your teeth.
2. Add the Diazo sensitizer DIRECTLY to the emulsion. Do not dissolve the sensitizer in water or add additional water to the emulsion.
3. Stir thoroughly for approximately 2 to 3 minutes to ensure emulsion is sensitised throughout.
4. Allow the emulsion to de-gas overnight before use.

Mesh Preparation

Unused polyester/nylon	Autoprep Gel and Universal Mesh Prep
Used polyester/nylon	Universal Mesh Prep, Auto Degreaser Concentrate
Stainless Steel	Auto Degreaser Concentrate

Coating & Drying

Using a good quality coating trough, proceed as follows:

1. Apply 2 coats to the print side of the screen.
2. Apply 2 coats to squeegee side.
3. The screen should be dried horizontally, squeegee side up and stored under dark or yellow light conditions. Dry the screen at a maximum temperature of 30 °C (86 °F).
4. Additional face-coats may be applied to the print side of the screen with intermediate drying.

Exposure

Correct exposure is essential for optimum stencil performance. Underexposure will give a weak stencil and reduce resistance.

Remove dust from the surface of the stencil and tape positive in position. Place entire screen in a suitable vacuum frame and expose. We recommend use of the Autotype Exposure Calculator for test exposures to ascertain correct timing. Exposure times below should be used as a guide:-

Exposure Time*

LAMP	DISTANCE	MINUTES										
		0	1	2	3	4	5	6	7	8	9	10
2kW metal halide	120 cm											
3kW metal halide	120 cm											
5kW metal halide	120 cm											
125W mercury vapour	50 cm											
UV fluorescent tubes	10 cm											

* Based on 2+2 coating on 90/cm (230/inch) dyed monofilament polyester mesh.



Washout & Drying

Wash out the screen from both sides with a strong spray of water. Continue the washout until all parts of the image appear clean and sharp. Blot off surplus moisture and dry at a maximum temperature of 30 °C (86 °F).

Spot out pinholes with sensitised emulsion.

Stencil Removal

Remove ink from the screen with an Autosolve screen cleaner. Then apply Autostrip to both sides of the screen and leave to stand for 5 minutes. The stencil can then be removed with a strong water jet. If a stain or ghost image still remains, use Autokleen Plus.

For more information on how to use MacDermid Autotype products, go to the How to Guide section at macdermid.com/autotype.

SHELF LIFE & STORAGE

The unsensitised emulsion and sensitiser should be stored between 5 to 20 °C (41 to 68 °F) for optimum shelf life.

The shelf life is 24 months for unsensitised emulsion and 4 to 6 weeks once sensitised.

PACKAGING

PLUS 7000 is supplied in trade packs of 6 x 1 Litres, 4 x 4 Litres, 1 x 20 Litres, all with Diazo.



SAFETY & WARNING

MacDermid Autotype recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available from MacDermid Autotype.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Autotype for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product.
 READ IT THOROUGHLY PRIOR TO PRODUCT USE.

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