

PLUS AQUA

Triple-cure Photopolymer Textile Emulsion

DESCRIPTION

PLUS AQUA is a very fast exposing, blue pigmented, photopolymer based direct emulsion that can be further hardened using a Diazo sensitiser.

Applications

PLUS AQUA has been formulated specifically for large Textile applications using water based inks.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- SBQ one pot garment emulsion for use with water based and Plastisol garment inks.
- 36% solids for good build on the range of meshes that are typically used for garment printing.
- Fast exposing with a good latitude.
- Quick washout and excellent print quality.
- Ready to use one pot formulation or can be used with Diazo for extra resistance.
- Very good coating quality and rapid drying speed.
- Short exposure times for better productivity.
- Resistant to most water based and plastisol textile inks.
- A very good all round emulsion for the busy textile printer.

WORKING INSTRUCTIONS

Mesh Preparation

Unused polyester/nylon

Autoprep Gel and Universal Mesh Prep

Used polyester/nylon

Universal Mesh Prep, Auto Degreaser Concentrate

NOTE: IT IS ESSENTIAL TO HANDLE PLUS AQUA ONLY UNDER GOOD YELLOW SAFELIGHT CONDITIONS.



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.

'Correct' exposure can be determined by hardness and 'through cure' of the stencil, and resolution of required detail. When correctly exposed, emulsion should not be easily removed from the squeegee side of the wet stencil when rubbed with a finger. Exposure times below should be used as a guide:-

Exposure Time*

LAMP	DISTANCE	SECONDS								
		0	20	40	60	80	100	120	140	160
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 43/cm (110/inch) amber monofilament polyester mesh.
 Double these times if using added Diazo.

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

The shelf life is 24 months when stored as recommended.

Some separation can occur with ageing and the re-mixing of separated material should not be attempted, as this could result in bits within the emulsion bulk. The loss in the form of separated material is very minimal and will not affect the functionality of the final product in any way.

PACKAGING

PLUS AQUA is supplied in trade packs of 6 x 1 Litres, 4 x 4 Litres, 1 x 20 Litres.



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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