



PLUS AQUA

Pre-sensitised Photopolymer Emulsion for Textile Printing

DESCRIPTION

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

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 & SAFE HANDLING

PLUS AQUA is pre-sensitised and can be used straight from the pot for short run applications. However, if greater water resistance is required PLUS AQUA can be used with the Diazo powder supplied with the emulsion.

PLUS AQUA is extremely sensitive to UV light and will 'fog' easily unless handled under good yellow safelight conditions. Similarly, coated screens must be handled under the same safelight conditions. Always store and use the product in original container, replacing lid after use. Even if the product is to be used without the Diazo addition then it should be stirred thoroughly prior to use.

If the Diazo addition has been made, leave the emulsion for at least 1 hour to de-gas prior to use.

MESH PREPARATION

Unused Polyester/Nylon:

Alkemi Autoprep Gel or Alkemi Degreaser Concentrate

Used Polyester/Nylon:

Alkemi Universal Mesh Prep or Alkemi Degreaser Concentrate

COATING & DRYING

PLUS AQUA is intended for coarse - medium mesh counts, between 43 and 120 threads/cm.

1. Apply 1 coat to the print side first followed by 1 coat to the squeegee side.
2. The screen should be dried at a maximum temperature of 35°C (110°F).
3. Take care to store the screen under dark or yellow light conditions.
4. The screen must be fully dried to ensure good exposure performance.
5. If the screen has been stored outside of the drying cabinet it is good practice to re-dry prior to exposure to remove any moisture that may be in the coating.

EXPOSURE

CORRECT EXPOSURE IS ESSENTIAL FOR OPTIMUM STENCIL PERFORMANCE. UNDEREXPOSURE WILL GIVE A WEAK STENCIL AND REDUCE WATER RESISTANCE.

Please note that if the Diazo addition has been made, the exposure time will need to be increased by at least 25%. Use the Alkemi Exposure Calculator to determine optimum exposure.

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. Surplus moisture can be removed with a compressed air line and then dry the screen at a maximum temperature of 30 °C [86°F). Spot out blemishes with PLUS AQUA and re-expose.

STENCIL REMOVAL

Remove ink from the screen, with Alkemi Screen Wash. Apply the Alkemi Stencil Remover Concentrate with the Alkemi Brush to both sides of the screen. Leave it on for 2-4 minutes. Remove with a strong water jet or high pressure washer. If a stain or ghost image remains, use Alkemi Haze Remover HV or Alkemi Autohaze.

FIRST AID

Eyes: Irrigate with water for 10 minutes.

Skin: Wash thoroughly.

Ingestion: Dilute with water and get medical advice.

DISPOSAL

Small quantities can be washed to foul waste with dilution. Larger quantities should be disposed of by an authorised industrial waste chemical contractor.

STORAGE

The emulsion should be stored between 3° and 20° C (37-68° F). Shelf life is 2 years when stored as recommended. Storage at higher temperatures will reduce shelf life.

PACKAGING

PLUS AQUA is sold in sealed plastic containers. Trade packs of 4 x 4 Litres and 1 x 20 Litres.

SAFETY & WARNING

MacDermidConnect 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 MacDermidConnect

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermidConnect 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 MacDermidConnect.

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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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