

PLUS AQUA Product Data Sheet

Pre-sensitised Photopolymer Emulsion for Textile Printing

PRODUCT 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 Textile applications using plastisol water based inks and water based discharge inks.

WORKING INSTRUCTIONS

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.

SAFE LIGHT WORKING

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	Autoprep Gel and Universal Mesh Prep or CPS Degreaser Concentrate
Used polyester/nylon	Universal Mesh Prep or CPS Degreaser Concentrate

COATING & DRYING

PLUS AQUA is intended for coarse - medium mesh counts, between 86 and 305 threads/in.



1. Apply 2 coats to the print side first followed by 2 coats to the squeegee side.
2. The screen should be dried at a maximum temperature of 35°C (110°F). Take care to store the screen under dark or yellow light conditions.
3. The screen must be fully dried to ensure good exposure performance. 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 Autotype 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, or for short runs CPS WR Filler can be used.

STENCIL REMOVAL

Remove ink from the screen with a suitable CPS Screen Wash. Apply CPS Stencil Remover Concentrate to both sides of the screen. Leave standing for 5 minutes. The stencil can then be removed with a strong water jet followed by a high pressure water spray. If a stain or ghost image still remains, use CPS Haze Remover Liquid or CPS Haze Remover HV.

HAZARDS

The emulsion is non-classified and there are no hazards associated with the normal use of this product. However, the product contains very small amounts of Chloromethylisothiazolinone (biocide), which may produce an allergic reaction in some individuals. Splashes in the eyes may be irritating and very sensitive skin may need to be protected. Wear gloves and goggles as appropriate.

Emulsion: May produce an allergic reaction.
Sensitiser: Harmful if swallowed.

FIRE PRECAUTIONS

Non flammable.

SPILLAGE

Flush with water.



FIRST AID

Eyes: Irrigate with water for 10 minutes.
 Skin: Wash thoroughly.
 Ingestion: Dilute with water and get medical advice.

ENVIRONMENTAL

This product is a mixture of water dispersible pigmented polymers. The polymers are polyvinylalcohols and/or plasticised polyvinylacetate with an insoluble pigment and surfactants. This product does not contain any materials regarded as ecotoxic or contained on the EC Black/Grey lists. Tests have shown no inhibition of activated sludge at typical effluent concentrations and the product may be regarded as drain safe and biodegradable, as long as local conditions for Chemical Oxygen Demand (COD and Biological Oxygen Demand (BOD) limits are met.

DISPOSAL

Small quantities can be washed to foul waste with dilution. Larger quantities should be disposed of by an authorised industrial waste chemical contractor. Emulsion EWC Code: 08 04 08.

STORAGE

The emulsion should be stored between 3° and 20°C (37-68°F). Shelf life is 1 year when stored as recommended. Storage at higher temperatures will reduce shelf life. Diazo sensitized emulsion should be used within 1 month of mixing.

PACKAGING

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

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Note – All data contained herein is based upon limited testing of pre-production material and should not be taken as representative of the eventual mass produced product.

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