CPS Ultra Coat Triton
Product Data Sheet

Diazo Sensitised Premium Textile Direct Emulsion

PRODUCT DESCRIPTION

CPS Ultra Coat Triton is a high quality, 45% solids, pigmented aqueous emulsion of water soluble dispersible polymers and monomers, supplied with diazo powder sensitiser.

APPLICATIONS

CPS Ultra Coat Triton photostencil emulsion is suitable for most textile screen printing applications as it is resistant to a wide range of textile inks including water based, plastisol and discharge inks.

CPS Ultra Coat Triton is particularly recommended for applications where the very highest print durability and print quality is required; this includes the use of aggressive Textile discharge inks and other extreme printing environments, while remaining reclaimable after printing.

HAZARDS

The sensitiser powder is classified as harmful by ingestion. Avoid breathing in dust. Rubber gloves and eye protection (goggles) should be worn, and if large quantities are handled, wear a dust mask. The product may be irritating to the skin, eyes or respiratory tract. Attention should be given to these safety precautions which isolate the user from any hazards. Keep in a dry, cool place away from heat, ignition and children's reach.

The emulsion is classified as an irritant as it is a skin sensitiser in its uncured state. Avoid skin contact and wear gloves when handling. Once cured, the emulsion is not classified as hazardous. Splashes in the eyes may be irritating. Wear goggles if splashing is likely.

WARNINGS

Emulsion: Irritant, skin sensitiser
Sensitiser: Harmful if swallowed

CPS Chemical Products and Services, Grove Road, Wantage, OX12 7BZ, UK
Tel. +44 (1235) 771111 – Fax +44 (1235) 771196

WORKING INSTRUCTIONS & SAFE HANDLING

Sensitising of Emulsion

Handle CPS Ultra Coat Triton under yellow fluorescent tubes or low wattage Tungsten light. CPS Ultra Coat Triton is supplied as a two pack kit comprising the emulsion and powder sensitiser.

Prior to sensitising, read the Safety Data Sheet for Diazo Powder.

CPS Ultra Coat Triton is supplied with a direct addition Diazo powder which can be added directly to the emulsion without dissolving in water first. Use a wooden or plastic stirring stick to thoroughly stir in the Diazo to the emulsion.

Allow the emulsion to de-gas for at least 15 minutes before use. For best results leave overnight before use. The shelf life of the sensitised emulsion is 2 months at room temperature, or 6 months if stored in a refrigerator. DO NOT FREEZE.

Mesh Preparation

Polyester/nylon mesh Use Degreaser concentrate

Coating & Drying

For optimum performance it is recommended that a coating machine is used. For manual coating, stand the screen on edge, angled away from the operator and, using a good quality coating trough, proceed as follows:

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

Exposure

FULL EXPOSURE IS ESSENTIAL TO ACHIEVE OPTIMUM STENCIL DURABITY. UNDEREXPOSURE WILL GIVE A WEAK STENCIL AND REDUCE RESISTANCE.

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

Exposure Time (minutes)*

LAMP	DISTANCE	0	1	2	3	4	5	6	7	8	9	10
2kW metal halide	120 cm											
3kW metal halide	120cm											
5kW metal halide	120cm											

* Based on 1+1 coating on a 43/cm (110/inch) yellow polyester mesh.

Washout & Drying
Wash out the screen from both sides with a strong spray of cold water. Continue the washout until all parts of the image appear clean and sharp. Ideally remove surplus water with a vacuum and dry at a maximum temperature of 30°C (86°F).

Spot out pin-holes with sensitised CPS Ultra Coat Triton and re-expose to harden.

For useful tips and tricks on how to get the best results from all CPS Ultra Coat emulsions go to www.cps.eu

Stencil Removal
First remove the ink from the screen with a suitable CPS screen cleaner – go to www.cps.eu for more information on the CPS range of screen solvents. Then apply CPS Stencil Remover to both sides of the screen. Leave to stand for 2 minutes IMPORTANT do not allow to dry. The stencil can then be removed with a strong water jet or high pressure washer. IMPORTANT – RINSE OFF STRIPPER BEFORE USING A HIGH PRESSURE GUN. If a stain or ghost image still remains, use CPS Haze Remover HV.

FIRE PRECAUTIONS
The sensitiser powder will burn liberating toxic oxides of nitrogen. If burning extensively, breathing apparatus should be worn. Fires may be extinguished with water or foam.

SPILLAGE
Diazo sensitiser should be collected for authorised chemical disposal. The emulsion may be flushed to waste with extensive dilution. Large spillage should be absorbed in sand or sawdust and transferred to a safe area for disposal.

FIRST AID

Ingestion:	Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues.
Skin contact:	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

SHELF LIFE & STORAGE
The unsensitised emulsion and sensitiser should be stored between 5° and 20°C for optimum shelf life.

Shelf life of un-sensitised CPS Ultra Coat Triton is 24 months.

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 is phthalate free and 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.

DISPOSAL

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

PACKAGING

CPS Ultra Coat Triton is supplied in sealed plastic containers.

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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