Technical Data Sheet

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ULANO Trifecta

Solvent and water resistant, one-component photopolymer emulsion

ULANO Trifecta is used for the production of high-quality, solvent resistant stencils. Good resolution and excellent mesh bridging make it suitable for the use in Computer-to-Screen (CtS) units. **ULANO Trifecta** is resistant against UV, plastisol, solvent and water resistant printing-inks. Use solvent-based cleaning systems for screen cleaning.

SENSITIZING
Not applicable as ready-to-use. However, to achieve very high printing resistance, e.g. when using aqueous or very aggressive discharge inks, **ULANO Trifecta** can additionally be sensitized with **DIAZO C62** or **DIAZO C10-D** (depending on the emulsion package size). The sensitized emulsion can be stored at least 2 weeks (at 20-25°C). The small Diazo bottle is filled to the mark, the large bottle to the bottle shoulder with distilled water. Close the bottle and shake well. After a maximum of 15 minutes give the diazo solution to the emulsion and stir until the mixture has homogenized. Allow the sensitized emulsion to degas for at least one hour before use.

DEGREASING
Before coating it is recommended to clean and degrease the screen mesh to achieve reproducible coating results. Ensure proper tension of the screen mesh. Use one of our manual degreasers or degreasing concentrates for automatic units. After thorough rinsing with water and drying, the screens are ready for coating.

COATING
Coating can be done manually or by machine.

DRYING
The screen must be dried thoroughly before exposing to achieve the highest ink resistance. This should preferably be done in a dust-free drying-chamber with fresh-air inlet at temperatures of between 35-40°C. In case of large sized screens which do not fit into the drying chamber, at least increase the room temperature (e.g. with an electric heater) and ventilate the humidity

EXPOSURE
The stencil is created by UV-light hardening of the non-printing stencil parts. Expose with blue actinic light at a wave length of 320-420 nm. Most suitable exposure sources are metal halide lamps or digital exposure units (CTS). Due to the variation of exposure units, trials for the determination of the correct exposure time are essential. Please contact the machine manufacturer or as ULANO for advise.

RETOUCHING / BLOCKING-OUT
For retouching / blocking-out use products of our screenfiller range. When printing with aqueous inks, preferably use water based products. These dry water resistant and can be removed with decoating products and a high pressure water washer. Ask your distributor or ULANO for advice.

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DECOATING
In general, stencils made using **ULANO Trifecta** can easily be decoated. Use one of our post-cleaners to remove possibly remaining ink residue or so-called ghost images which may remain on the screen after decoating. Trials are essential as the type of residue may vary. Please ask for samples to test.

NOTICE
Please note that the printing resistance of a screen-printing stencil is influenced by a lot of parameters e.g. mesh, coating technique, drying, exposure time etc. Furthermore, a lot of printing media and printing machines are being used in practice which have not all been tested by us. Therefore, please accept our offer and test the suitability of our products by asking for emulsion samples, as we can only guarantee for a constant quality according to our own working conditions.

COLOUR	Violet
VISCOSITY	Approx. 7000 mPas (Rheomat RM 180, MS 33, D = 100 s^{-1}, 23°C)
HEALTH HAZARDS / ENVIRONMENTAL PROTECTION	Please follow information given in the safety data sheet.
STORAGE	1 year (at 20-25°C). Protect against freezing. Screens coated in advance: at least 4 weeks (at 20°C and in complete darkness). Dry again prior to copying.