ULANO PROCLAIM HR

DESCRIPTION

Solvent resistant Diazo UV-polymer emulsion.

ULANO Proclaim HR is used for the production of high-quality, solvent resistant stencils. High resolution and excellent mesh bridging make it suitable for printing finest half-tones, lettering and designs (circuit boards, ceramic decals, bar-codes). Due to its relatively good water resistance it is possible to print smaller runs with water-based printing media, too.

COLOUR	Unsensitized: turquoise Sensitized: green
VISCOSITY	Approx. 7000 mPas (Rheomat RM 180, MS 33, D = 100 s^{-1}, 23°C)

SENSITIZING

With Diazo C45-D or C 41-D (depending on the emulsion package size)/

DEGREASING

Before coating, we recommend 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 a degreasing concentrate 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. The use of a coating machine is recommended because it achieves a reproducible coating result. If coating is done manually ensure that the mesh openings are first filled from the printing side (generally 2-3). Only then begin with the emulsion build-up from the squeegee side - depending on the print job.

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.

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 350-400 nm. The most suitable exposure sources are metal halide lamps. Due to the many variables that determine the actual exposure time, accurate exposure times cannot be given. Optimum copying results can only be achieved by trials (step exposure). For best resistances, please choose an exposure time which is as long as possible. This maximum exposure time must still allow reproduction of fine details.

RETOUCHING / BLOCKING-OUT

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

DECOATING

In general, stencils made using ULANO Proclaim HR 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.

STORAGE

Unsensitized: 1 year (at 20-25°C). Protect against freezing.
Sensitized: approx. 6 weeks (at 20-25°C)

Screens coated in advance: approx. 4 weeks (at 20-25°C and in complete darkness). Dry again prior to copying.

SPECIAL INSTRUCTIONS

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.

HEALTH HAZARDS/ ENVIROMENTAL PROTECTION

Please follow further information given in the material safety data sheet.

IMPORTANT INFORMATION

This data sheet is for your information. A legally binding assurance of the product's suitability for a specific purpose cannot be derived from it and no liability can be assumed for any potential damages that may occur. Our products are subject to continuous production and quality control and leave our company in perfect condition.

This product is intended solely for industrial applications and not for use by the end consumer. We recommend to our customers to always test the product themselves since only in this way – also after production – can the freedom from certain substances and the suitability for a particular purpose be verified. The user has to test the product for suitability for the intended application. We reserve the right to modify product specifications. Tests that are not part of the specifications of the product mentioned above have not been carried out.

All information applies only to the above-mentioned product obtained from Kissel + Wolf GmbH. It corresponds to our current state of knowledge, but is not a confirmation of a particular application and is not automatically replenished. All information is valid for a maximum of 12 months (annexes may be provided with their own date) or until legal changes are made in this time period. The recipient of our product is solely responsible for observing any possible property rights as well as existing laws and regulations. Property rights of third parties must be observed. Our terms and conditions of sale and delivery shall apply.