

## ULANO 731

### Solvent resistant Diazo photoemulsion

**ULANO 731** is used for the production of high-quality, solvent resistant stencils. High resolution and excellent mesh bridging make it ideally suitable for printing finest half-tones, lettering and designs (circuit boards, ceramic decals, bar-codes).

#### SENSITIZING

With **Diazo C11-D** or **C56-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

With mesh counts of more than 120 threads/ cm, manual coating must be done slowly and evenly. In some cases, it is advantageous to initially coat three times from the printing side. Only then begin with the emulsion build-up from the squeegee side, e.g. 3-1, 3-2, ... The use of a coating machine is recommended because it achieves a reproducible coating result.

#### 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. Please ask your distributor or ULANO for advice.

#### DECOATING

In general, stencils made using **ULANO 731** 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.

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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.

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ULANO · Division of Kissel + Wolf GmbH · In den Ziegelwiesen 6 · 69168 Wiesloch · Germany · Tel: +49 6222 578-0 · Fax: +49 6222 578-100

ULANO Singapore Rep. Office · 16 New Industrial Rd. #05-07 · Hudson TechnoCentre · Singapore 536204 · Tel: +65 6451 7505 · Fax: +65 6451 7507

www.ulano.eu

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# Technical Data Sheet



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## 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.

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## COLOUR

Unsensitized: blue  
Sensitized: green

## VISCOSITY

Approx. 16000 mPas (Rheomat RM 180, MS 33, D = 50 s<sup>-1</sup>, 23°C)

## HEALTH HAZARDS / ENVIRONMENTAL PROTECTION

Please follow information given in the safety data sheet.

## 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.