



Norikop 11

Solvent and Water Resistant Premium Diazo-sensitized
UV Polymer Emulsion for Optimal Printing Results

Area of Application

Norikop 11 is suitable for the production of solvent and water resistant stencils for high quality requirements.

Norikop 11 can as well be used for processing UV curing screen printing inks.

Norikop 11 is a high-quality diazo-sensitized UV polymer emulsion with 40 % solids.

Norikop 11 is used in the following screen printing markets:

- **industrial screen printing**
- **graphical screen printing/promotion**
- **electronics**

Color / Pigmentation

Blue

Sensitized: Green

Handle Norikop 11 under yellow fluorescent tubes or low wattage tungsten light.

Characteristics

- tack-free surface
- high solids content
- excellent mesh bridging
- excellent resolution and definition
- optimal printing results for fine lines and halftone prints
- decoatable

Sensitization

A 100 ml (black) sensitizer bottle is attached to each 0.9 kg can. The bottle contains Diazo-powder. The sensitizer bottle has to be filled with ½ (50 ml) clean or distilled water. Shake the bottle for dissolving the Diazo-powder and then pour it into the emulsion. Stir thoroughly.

A 250 ml (black) sensitizer bottle is attached to each 4.5 kg can. Fill the bottle one time with water, dissolve the Diazo-powder completely and pour it into the emulsion. Stir thoroughly.

Wait for at least 1 hour to allow any air bubbles to escape. The sensitized emulsion has a pot life of approx. 6 weeks at ambient temperature 20 ° C (68 °F); 3 months when stored in a refrigerator.

Fabric / Pre-treatment of the Fabric

Norikop 11 is recommended for fabrics from 40 to 190 threads/cm.

Clean, grease-free fabrics are required for a high-quality stencil. We recommend pre-treating the fabric with NoriScreen EF/PR.

Coating

The number of coating operations required to obtain optimal mesh structure compensation depends on

- fabric fineness
- condition of the coating trough
- angle of incidence of coating trough
- contact pressure and speed of the coating trough during the coating process

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The correct coating thickness can be determined best via stepwise coating.

The coated screen should be dried at a maximum of 40 °C (104 °F) in horizontal position, with print side down.

The mesh structure compensation can be further improved if coating is repeated one to three times on the print side with intermediate drying.

Exposure

Exposure is carried out using a metal halide lamp with a maximum light intensity in the range from 350 to 450 nanometers. No exact times can be specified here, as the appropriate exposure time is influenced by many factors, such as fabric fineness, fabric dye, output of the lamp, distance of the lamp from the stencil, coating thickness. The appropriate exposure times for the locally prevailing conditions can be established quickly and easily with step-by-step exposure or exposure calculator.

Dyed fabrics (yellow) avoid under-cuttings, and offer a wide range of exposure times without any impairment to the quality of fine lines or half-tones.

Please notice:

In order to achieve an **optimum water resistance** of the stencil for printing with water-based screen printing inks:

- **The stencil must be absolutely dry before exposure!**
- **The selected exposure time should be at the upper limit of the exposure time range! Exposure times which are too short will impair the water resistance of the stencil!**
- **Repeated exposure after development of the stencil (from the squeegee side) further increases water resistance (useful when printing large jobs).**

After exposure, Norikop 11 is developed with luke-warm water. Extremely fine details should be developed with a high-pressure washer.

Decoating

After cleaning the stencils Decoater Z 35/1 (diluted with water at a ratio of 1 : 10) is applied from both sides. After a short period of time, the stencil residue is rinsed off with water, most effectively with a shower spray. Afterwards, a high-pressure washer is recommended.

Shelf Life

Allow the product to adjust to ambient temperature in the closed container before use.

The shelf life stated on the label assures the product's quality and refers to unopened original cans stored in a dry place at temperatures between 5 °C and 25 °C (41 °F and 77 °F).

Sensitized emulsions:

approx. 6 weeks, when stored dark

approx. 3 months if stored in a refrigerator.

Coated stencils in stock:

Approx. 4 weeks in absolute darkness, ambient temperature of approx. 20 °C (68 °F) and air humidity under 50 % r. F.

Prior to exposure the coated screens have to be dried in a drying cabinet for a short time, to remove moisture!

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