

KDCOAT UNIVERSAL HV

Technical Data Sheet

Description

KDCOAT UNIVERSAL HV is a universally resistant dual-cure/diazo photo emulsion with higher solids for fine resolution and high definition.

Physical Data

Solids: 40 % (Sensitised: 36%)
Viscosity: 13000-15000 cPs (Sensitised: 7000-9000 cPs)
Colour: Violet
Density: 1.05

Coating

Before coating, the screen must be clean and degreased with KDSCREEN DEGREASER.

KDCOAT UNIVERSAL HV can be coated by hand or machine. For a good result on mid range and fine meshes, it is recommended to apply one coat to the print side and two coats to the squeegee side.

Drying

Leave to dry in a horizontal position, squeegee side up, in a dark or yellow light area. The drying temperature should not exceed 30°C. The drying area should have good ventilation to avoid humidity.

Exposure Guidelines

CORRECT EXPOSURE IS ESSENTIAL FOR OPTIMUM STENCIL PERFORMANCE.
UNDEREXPOSURE WILL GIVE A WEAK STENCIL AND REDUCE RESISTANCE.

Exposure times will be dependent on the particular projection unit used, magnification, mesh count and coating thickness.

To conduct a test exposure, 4 strips of masking film should be applied to the screen and removed at timed intervals. Correct exposure can be determined by hardness and "through cure" of the stencil, and resolution of required detail. When correctly exposed, emulsion should not be easily removed from the squeegee side of the stencil by rubbing with a finger.

We recommend the following as a guide in arriving at your best exposure time:

120 mesh / orange, 1 + 2: **40 seconds.** (Metal-halide / 5 kW).

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Developing

After the correct exposure, the stencil must be developed in cold or lukewarm water (not above 30°C). Rinse the stencil on both sides until the open areas look clean and all excess unexposed photoemulsion has been removed. Soak up remaining moisture with an absorbent lint free cloth or chamois leather to speed up the drying. Leave to dry in temperatures of not more than 30°C.

When dry, unwanted open areas should be masked out with KDCOAT FILLER (solvent resistant) before use.

Reclaiming

KDCOAT UNIVERSAL HV stencils is easy reclaimable with KDSCREEN Stencil Remover.

It is recommended to use high pressure water spray for optimum results.

In the interest of health and safety always wear appropriate protective clothing.

Read Safety Data Sheet for full protection information.