

KIWOMASK® UV 164

Removable, screen printable, UV-curing protective lacquer

KIWOMASK UV 164 is a one-component protective lacquer, protecting devices and surfaces against mechanical strain. KIWOMASK UV 164 is suitable for glass and metal surfaces, as well as many plastic materials such as PC and PET. We recommend conducting trials in order to test adhesion and removal properties of the dried film on the different substrates.

APPLICATION

Pre-treatment: Make sure that the substrate is clean and free from grease to facilitate adhesion. Stir prior to use.

KIWOMASK UV 164 is being applied by screen printing and cured by UV light.

Recommended screen-printing parameters: Polyester mesh from 21-140 W (thread count/ inch 54) to 61-64 W (thread count/ inch 156), solvent-resistant screen-printing emulsion. With those mesh counts, build-up thicknesses of 25 µm to 120 µm can be achieved. When screen-printing, we recommend using a polished squeegee with medium shore strength (60 to 80 shore) and a squeegee angle of 75°. Due to its fairly high viscosity, we recommend a slow squeegee velocity (200 mm/ sec) and a medium velocity of the flooding squeegee (400 mm/ sec). The angle of the flooding squeegee should be at 90°. In order to avoid air bubbles, we recommend applying a high angle of the squeegee and respectively apply low pressure. When lowering the flooding squeegee, the squeegee edge should not be showing on the printing side of the stencil.

For large formats, we recommend a bigger distance from the stencil (approx. 5-7 cm).

When removing the film from the substrate, we recommend applying a strongly adhering adhesive tape (e.g. KIWOBAND 620) at an edge of the protective film and remove both together. The film can be best removed after 10-30 minutes after the UV cross-linking and cooling down to ambient temperature.

UV HARDENING

Mercury high-pressure vapour lamp, required light energy: approx. 300-500 mJ/cm²

REDUCING

Ready-to-use product, a dilution is not recommended.

COLOUR

Blue

VISCOSITY

Approx. 31.000 mPas (Brookfield RVT, spindle 6, 20 r/min, 20°C)

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. Liability for damages due to a slightly negligent breach of duty on our part or on the part of our legal representative or vicarious agent is excluded. Our liability for damages due to injury to life, body or health is not covered by this limitation of liability. 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 from the date stated above (annexes may be provided with their own date). Any industrial property rights as well as existing laws and regulations are to be observed by the recipient of our product on his own responsibility. Intellectual property rights of third parties must be observed. Our terms and conditions of sale and delivery shall apply.

**HEALTH HAZARDS/
ENVIRONMENTAL
PROTECTION**

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

STORAGE

12 months (at 20-25°C and original container). Protect against direct sun light and other UV-light sources.