

KIWO[®] StencilGuard EL

Boxed set consisting of a highly resistant one-component coating medium and primer for modifying the underside of SMD stainless steel stencils

When coated with KIWO StencilGuard EL, SMD stainless steel stencils are made repellent against flux and solder paste carryover during the printing process. Edge definition is thus improved during solder paste printing; bridge-formation between the solder paste areas is effectively minimized and thus eliminates the risk of short-circuiting.

APPLICATION

The SMD stencil underside is prepared for coating using the KIWO Stencil-Clean EL primer and cleaning cloths provided. Apply some KIWO Stencil-Clean EL primer to a clean cloth and wipe firmly with circular movements, all over the entire stencil underside. In particular, the areas around the pad-bridges should be very thoroughly primed.

A slight colour change indicates that all areas of the stencil have been covered sufficiently. The stencil surface being prepared should have a uniform appearance. Polish with a dry cleaning cloth and then apply KIWO StencilGuard EL firmly in a circular motion; it is important to ensure that liquid film is sufficient, especially in the area of the apertures. It is recommended to use a lint-free, absorbent cleaning cloth as an underlay to immediately absorb any coating material penetrating through the apertures, so that coating medium is not carried over to the stencil topside.

After coating the stencil underside – either all-over or selective in the aperture areas - finish off with a final polish using a dry cloth. After applying KIWO StencilGuard EL, a colour change is effected on the surface of the original stencil material. In order to facilitate a visual inspection, the area to be coated can be first surrounded with duct tape, and the difference “before” and “after” when the tape is removed will indicate that the coating process was sufficient. Furthermore, the functionality of KIWO StencilGuard EL coating can be easily checked using a commercially available flux pen (drop formation or pearling).

The coated stencil can be used for printing after drying for about 15 minutes at room temperature; a longer drying period leads to a further increase in resistance. KIWO StencilGuard EL is very abrasion resistant and has excellent solvent resistance (isopropanol, aqueous and solvent-based cleaners).

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| COLOUR | KIWO StencilGuard EL Coating and KIWO StencilClean EL primers are colourless. |
| FLASH POINT | Each component about 12°C |
| CONSUMPTION | Approx. 7 ml per stencil |
| HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION | When working with KIWO StencilGuard EL, use suitable protection gloves and safety goggles. Follow further information given in the MSDS. |

STORAGE

The KIWO StencilGuard EL boxed set should be stored in a cool place (max. 30°C) and storage life is about 1 year.