

Universal thinner UV 5000

Universal retarder UZ 5100

The universal thinner **UV 5000** and the universal retarder **UZ 5100** are solvent mixtures which are suitable for many of our 1- and 2-pack screen printing inks for circuit printing.

- **UV 5000:** for viscosity reduction
- **UZ 5100:** for viscosity reduction while also extending the screen open time

If the Technical Report of the screen printing lacquer specifies a thinner or a reactive thinner this one should be used, as such products were particularly adjusted for the lacquer formulation.

Characteristics

	UV 5000	UZ 5100
Colour/appearance	colourless	colourless
Density at 20 °C [68 °F], DIN 51 757	0.89 ± 0.02 g/cm ³	0.93 ± 0.02 g/cm ³
Evaporation index (Ether = 1)	< 50	< 3500

Indices: UV = Universal thinner, UZ = Universal retarder

Processing



Please read this technical report and the publications listed below carefully before using the product. These sheets are enclosed with the first shipment of product or sample.

MSDS

The corresponding material safety data sheet contains detailed information and characteristics on safety precautions, environmental protection, transport, storage, handling and waste disposal.

TI

Technical information TI 15/3 "Protective measures when using chemicals including lacquers, casting compounds, thinners, cleaning agents"

→ Perform pre-trials to determine optimum quantities to be added.

Usually a quantity of 3–5 % of **UV 5000** or **UZ 5100** is added.

→ Mix thinner or retarder and lacquer thoroughly.

Since the many different permutations make it impossible to evaluate the whole spectrum (parameters, reactions with materials used, chemical processes and machines) of processes and subsequent processes in all their variations, the parameters we recommend are to be viewed as guidelines only that were determined in laboratory conditions. We advise you to determine the exact process limitations within your production environment, in particular as regards compatibility with your specific follow-up processes, in order to ensure a stable fabrication process and products of the highest possible quality.

The specified product data is based upon standard processing conditions/test conditions of the mentioned norms and must be verified observing suitable test conditions on processed printed circuit boards.

Feel free to contact our application technology department (ATD) if you have any questions or for a consultation.

Safety recommendations

- When using chemicals, the common precautions should be carefully noted.
- Ensure that extractor units of workplace ventilation arrangements are positioned at solvent source level.
- Please also pay attention to national guidelines or directives concerning operating safety such as the German TRBS (technical rules for operating safety) and those concerning the handling of flammable liquids as for example the German TRbF (technical rules for flammable liquids) or European directives.

Standard packaging

Can of 15 kg. Smaller quantities against surcharge.

Shelf life and storage conditions



Shelf life: In sealed original containers at least 18 months



Storage conditions: +5 °C to +25 °C [+41 °F to +77 °F]

For warehousing reasons, isolated cases may occur where the shelf life upon shipment is less than the shelf life indicated in this technical report. However, it is ensured that our products have **at least** two-thirds of their shelf life remaining when they leave our company. Labels on containers show shelf life and storage conditions.

Disclaimer

All descriptions and images of our goods and products contained in our technical literature, catalogues, flyers, circular letters, advertisements, price lists, websites, data sheets and brochures, and in particular the information given in this literature are non-binding unless expressly stated otherwise in the Agreement. This shall also include the property rights of third parties if applicable.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets. The advisory service does not exempt you from performing your own assessments, in particular as regards their suitability for the applications intended. The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery.

Any questions?

We would be pleased to offer you advice and assistance in solving your problems. Free samples and technical literature are available upon request.