

TECHNICAL DATA SHEET



ABchimie80K-UV LED

Apr 2024

UV soft resin, Very High viscosity

ABchimie80K-UV LED is a soft one component resin, UV curable which has a good adhesion on many substrates. It can be applied in high thickness deposit (few mm). Its curing is immediate with UV LED radiation.

ABchimie80K-UV LED gives local protection for your components. It especially gives a good mechanical protection to high components, against vibrations. It also can be applied to bring robustness to your systems.

CHARACTERISTICS

- Soft resin,
- Protection against humid and thermal environments,
- Excellent adhesion on many substrates (PCB, plastics,...),
- No VOC,
- Curing until 5mm-thickness,
- Very fast curing under UV LED exposure
- High speed process, increase of the productivity,
- Flammability resistance, **approved UL 94V0 (QMJU2-E308681)** 

DRYING TIMES AND CURING CONDITIONS

ABchimie80K-UV LED cures with UV LED technology.

UV LED Curing:

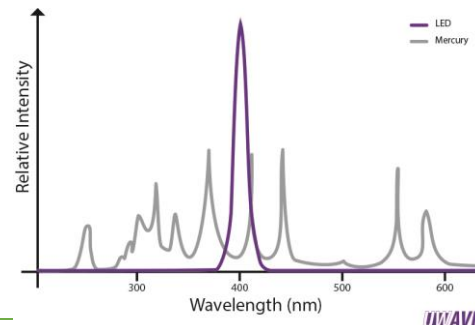
It is important to use the appropriate LED equipment, as well as the recommended settings for the best properties of the resin Abchimie80K-UV LED:

LED lamp 395 nm

Minimum UVA2 dose : **3000mJ/cm²** (to a 1mm-thickness)

The UVA2 dose is a minimum dose recommended. The intensity depends on the lamp power and the lamp distance. UV dose may be increased by a longer exposure time. A higher dose of UV or a overexposure will not damaged the product. However a lower UVA dose can have a detrimental effect on product final properties therefore it is very important to ensure minimum recommended UVA dose is met with your curing system.

The following graph shows the wavelength range emitted by the LED lamp, different from the spectrum of a mercury lamp.



LIQUID PROPERTIES:

Color	Transparent (light yellow coloration)
Composition	Urethane Acrylate
Viscosity (@ 25 °C)	80 000 mPa.s (estimated)
Specific gravity (20°C)	1,1
Non-volatile residue	100%

CURED PROPERTIES:

Color	Transparent (light yellow effect)
Hardness Shore (after 7 days)	D15
Moisture heat	85°C, 85%HR, 100h
Temperature	From - 50°C à + 150 °C
Tg	-19°C
CTE (if T < Tg)	50 ppm/K
CTE (if T > Tg)	150 ppm/K
Auto-extinguishing	UL94 V0

ABchimie80K-UV LED is compliant with REACH and RoHS regulations. If you want a certificate, please contact us (info@abchimie.com).

PACKAGING:

Resin ABchimie80K-UV LED

Syringe	ABchimie80K UV LED 30G
Bulk 1kg	ABchimie80K UV LED 01K
Bulk 5kg	ABchimie80K UV LED 05K
Bulk 20kg	ABchimie80K UV LED 20K

Cleaner (for uncured material)

Bulk 5 litres	SND 05 L
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STORAGE AND SHELF LIFE :

ABchimie80K-UV LED resin must be store in a dark container and closed. ABchimie80K-UV LED mustn't be exposed at UV light.

In any case, please refer to MSDS for good storage conditions.

Storage temperature: 5 to 30°C

A temporary lower or higher temperature (maximum 40°C) during few days (transport) doesn't distort varnish properties.

In any case, please refer to MSDS for good storage conditions.

Date by use: 12 months after the date of manufacturing, protected from light, in original closed packaging.

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