

## ABchimie42K-UV LED


Jan. 2019

### UV LED soft resin, High viscosity

ABchimie42K-UV LED is a soft one component resin, UV curable which have a good adhesion on many substrates. It can be applied in high thickness deposit (few mm). Its curing is immediate with UV LED radiations.

ABchimie42K-UV LED gives local protection for your components, especially against humidity and high electric pressure. It also can be applied to bring robustness to your systems.

### CHARACTERISTICS

- Soft resin,
- Protection against humid and thermal environments,
- Excellente adhesion on many substrates (PCB, plastics,...),
- No VOC,
- Product cured until 5mm-thickness
- Very fast curing under UV exposure
- Space ground reduced compared with solvent bases.
- High speed process, increase of the productivity.
- **Approved UL 94V0 (QMJU2-E308681).** 

### DRYING TIME AND CURING CONDITIONS

ABchimie42K-UV LED cures with UV LED technology.

#### *LED UV curing:*

It is important to use the appropriate LED equipment, as well as the recommended settings for the best properties of the resin ABchimie42K-UV LED:

**LED lamp 395 nm, power: 8W/cm<sup>2</sup>**  
**Distance lamp - polish: 0 to 10cm**

Minimum UVA2 dose : **2000mJ/cm<sup>2</sup>** (to a 2mm-tickness)

Process can work with recommended UV LED oven:

#### **UVLED395 from SMT Europe**

*Contact:* M. Joan BENARD  
SMT Europe  
08860 Castelldefels (Barcelona) SPAIN  
+34 902 551 583



## **LIQUID PROPERTIES:**

Color	Transparent (light yellow coloration)
Composition	Urethane Acrylate
Viscosity (@ 21 °C)	38 000 – 46 000 mPa.s (estimated)
Specific gravity (20°C)	1,1

## **CURED PROPERTIES:**

Color	Transparent (light yellow effect)
Hardness Shore (after 7 days)	25D
Tg	-6°C
CTE (-40 to 10°C)	150 ppm/°C
CTE (30 to 105°C)	240 ppm/°C
VRT test	-25°C +70°C, 100 cycles, pente 1°C/mn
Moisture heat	85°C, 85%HR, 100h
Temperature	From - 50°C à + 150 °C
Auto-extinguishing	UL94 V0
Dielectric strength	60kV/mm

ABchimie42K-UV LED is compliance with REACH and RoHS regulations. If you want a certificate, please contact us ([info@abchimie.com](mailto:info@abchimie.com)).

## **PACKAGING :**

### ***Resin ABchimie 42K-UV LED***

Bulk 1kg	ABchimie 42K-UV LED 01K
Bulk 5kg	ABchimie 42K-UV LED 05K

### ***Cleaner***

Bulk 5 litres	SND 05 L
Bulk 5 litres	DNS 05 L

## **STORAGE AND SHELF LIFE :**

ABchimie42K-UV LED resin must be store in a dark container and closed. ABchimie42K-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.

**Date by use:** 12 months after the date of manufacturing

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