

TECHNICAL DATA SHEET

ABchimie42K-UV LED

Oct. 2017

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.

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/cm²
Distance lamp - polish: 0 to 10cm

Minimum UVA2 dose : **2000mJ/cm²** (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
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LIQUID PROPERTIES:

COLOR	Transparent, yellow coloration
COMPOSITION	Urethane Acrylate
VISCOSITY (21°C)	50 000 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 à 10°C)	150 ppm/°C
CTE (30 à 105°C)	240 ppm/°C
VRT	-25°C +70°C, 100 cycles, pente 1°C/mn
MOISTURE HEAT	85°C, 85%HR, 100h
TEMPERATURE	From - 25°C à + 85 °C

ABchimie42K-UV LED is compliance with REACH and RoHS regulations. If you want a certificate, please contact us (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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