


UV soft resin, High viscosity

ABchimie42K-UV 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 radiation.

ABchimie42K-UV 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

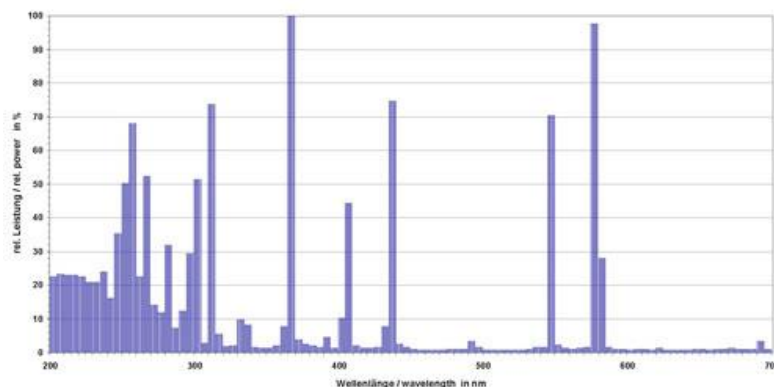
- Soft resin,
- Protection against humid and thermal environments,
- Excellente adhesion on many substrates (PCB, plastics,...),
- No VOC,
- Cured until 5mm-thickness,
- Very fast curing under UV exposure
- Space ground reduced compared with solvent bases.
- High speed process, increase of the productivity.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

DRYING TIMES AND CURING CONDITIONS

ABchimie42K-UV cures with UV technology.

UV Curing:

It is important to use the appropriate UV equipment, as well as the parameters recommended to obtain the optimal properties of the ABchimie42K-UV. The advised equipment is a **mercury lamp**.



Emission spectrum of mercury lamp (UV between 200 and 400nm)

CURE TIME

<1 sec

Hg Lamp (Miniterm UV 250f Super, Aeroterm), 120W/cm, joint de 0,200mm

MINIMUM UVA Dose

1000mJ/cm² UVA

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 is compliance with REACH and RoHS regulations. If you want a certificate, please contact us (info@abchimie.com).

PACKAGING:

Resin ABchimie42K-UV

Bulk 1kg	ABchimie 42K-UV 1K
Bulk 5kg	ABchimie 42K-UV 5K

Cleaner

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

STORAGE AND SHELF LIFE :

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