TECHNICAL DATA SHEET

ABchimie9005UV
ABchimie9005UV LED

Sept 2025

UV curable resin, adhesion on plastic substrates

ABchimie9005UV and ABchimie9005UV LED are clear glueS made for glass bonding on many substrates (glass, metal, plastics…). Its curing is immediate with UV or LED radiation. The cured glue is colorless and no yellowing.

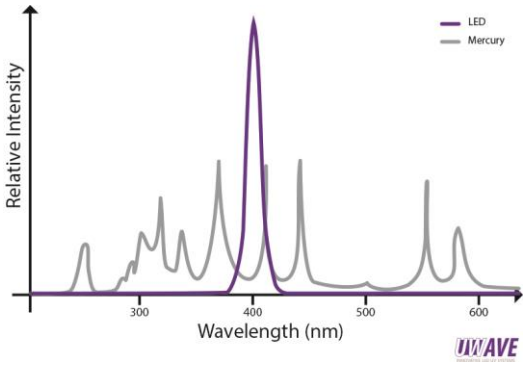
FEATURES

- Excellente adherence on many substrates, especially glass
- Clear and no yellowing
- Very fast curing with UV radiations
- No VOC

CURING CONDITIONS

It is important to use the appropriate UV equipment (UV or LED) as well as the recommended settings for the best properties of cured conformal coating. These parameters have some effects on the reactivity and the surface of coating.

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



ABchimie9005UV and ABchimie9005UV LED glue have a slight tack effect du to its composition and nature of glue.

1- ABchimie9005UV LED - LED curing

Recommended settings for the best properties of the resin ABchimie9005UV LED:

LED lamp 395 nm
Minimum UVA2 dose : **1000mJ/cm²** (to a 50µm-thickness)
Minimum UVA2 dose : **5000mJ/cm²** (to a 1mm-thickness)

The UVA dose is a minimum dose recommended. The intensity depends on the lamp power and the lampe distance.

UVA 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.

2- ABchimie9005UV - UV mercury curing

Recommended settings for the best properties of the resin ABchimie9005UV LED:

Hg Lamp (Miniterm UV 250f Super, Aeroterm), 120W/cm

Minimum UVA dose : 1**000mJ/cm²** (to a **50µm-thickness**)

The UVA dose is a minimum dose recommended. The intensity depends on the lamp power and the lampe distance.

UVA 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.

PROPERTIES

LIQUID PROPERTIES:

Color	Clear liquid (transparent)
Composition	Urethane Acrylate
Viscosity (@ 25 °C)	50 to 80 000 cP
Non-volatile residue	100%

Appearance

CURED PROPERTIES:

Color	Colorless, no yellowing
Fluorescent at 365nm	No
Adherence	
Glass / glass :	3MPa
Glass / alu :	3MPa
Glass /PMMA :	2MPa
PC/ABS :	2MPa
PMMA/Alu :	2MPa

ABchimie9005UV and ABchimie9005UV LED are compliant with REACH and RoHS regulations. If you want a certificate, please contact us (info@abchimie.com).

PACKAGING:

Resin ABchimie9005UV LED

Syringe	9005UV LED S30
Cartridge	9005UV LED C330
Bulk 1kg	9005UV LED 01K
Bulk 5kg	9005UV LED 05K
Bulk 20kg	9005UV LED 20K

Resin ABchimie9005UV

Syringe	9005UV S30
Cartridge	9005UV C330
Bulk 1kg	9005UV 01K
Bulk 5kg	9005UV 05K
Bulk 20kg	9005UV 20K

Cleaner (for uncured material)

Bulk 5 litres	SND 05L
Bulk 5 litres	ABclean 05L

STORAGE AND SHELF LIFE :

ABchimie9005UV and ABchimie9005UV LED resin must be store in a dark container and closed. ABchimie9005UV and ABchimie9005UV 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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