

TECHNICAL DATA SHEET

ABchimie6028UV LED

Apr 2024

Transparent thixotropic resin, curing by UV LED

PRODUCT DESCRIPTION

The resin ABchimie6028UV LED is a transparent resin. It adheres on many substrates, especially plastics.

The curing is immediate with UV LED radiations (395nm). The resin thixotropy allows a high thickness deposit (to 4mm).

MAIN CHARACTERISTICS

- Easy deposit with thixotropic resin,
- Fluorescent UV to control the layer of deposit,
- Excellent adhesion on flexible substrates (plastics),
- No VOC,
- Immediate curing with UV LED exposure,
- Floor space reduced compared with solvent based,
- High speed process, increase of the productivity.

CURING

ABchimie6028UV LED cures with UV LED technology.

UV LED Curing:

It is important to use the appropriate LED equipment, as well as the recommended settings to obtain the best properties of the resin ABchimie6028UV LED:

LED lamp 395 nm

Minimum UVA2 dose : **5000 mJ/cm²** (1mm- thickness)

The UVA 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 UVA dose does not have any negative effect on product final properties. 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 resin ABchimie6028UV LED has a light tack on surface, due to its soft nature. A completed curing means cured product in the depth of product, not at its surface.

PROPERTIES

Liquid resin ABchimie6028UV LED

Nature

Acrylic

Aspect

Thixotropic liquid

Colour	Translucent
No volatile residue	100%
Flash point	> 100°C
Density	1,06

Cured Resin ABchimie6028UV LED

Aspect	Transparent
Hardness (shore)	D45
Tg	-35.5°C
CTE (T < Tg)	63 ppm/°C
CTE (T > Tg)	118 ppm/°C
Young modulus @ 20°C	84 MPa

ABchimie6028UV LED is in compliance with REACH and RoHS regulations. A certificate may be sent on request (info@abchimie.com).

CONDITIONNING

Resin ABchimie6028UV LED

Syringe 30CC
Cartridge 330g
1 kg
5 kg

REFERENCES

ABchimie6028UV LED 30G
ABchimie6028UV LED C330
ABchimie6028UV LED 01KG
ABchimie6028UV LED 05KG

Cleaner SND

Can 5 liters

SND 05L

Stripper DVP

Can 1 liter

DVP 01L

Version is available with UV curing (mercury lamp) or LED curing, in syringe, cartridge, 1L can or 5L can.

STORAGE AND DATE OF USE:

The resin ABchimie6028UV LED must be store in a dark container, away from hot temperatures (less than 40°C).

The resin ABchimie6028UV LED cures with UV radiations so it must not be exposed to any light source.

Storage temperature : 5 to 30°C

A short stay at a lower temperature (especially during transport) will not damage product's properties. In all cases, refer to the safety data sheet to ensure good storage conditions.

Date of use : 12 months after manufacturing.

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. ABchimie cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.