

## Peelable mask curable by UV and LED

### PRODUCT DESCRIPTION

**UV peelable** is a one-component masking material which can be cured under UV Hg or LED lights. This gel can be deposited up to a few mm thickness for masking components and protecting areas before wave soldering or coating dispensing processes.

**UV peelable** is offered for temporary masking protection and can be applied manually or in a selective coating machine. UV Peelable is very easy to remove by hand or with a pair of tweezers with no residues left after removal.

**UV peelable** cures immediately under LED lights (395nm). It can also be exposed under UV Hg oven (*known as mercury lamp*) for the same results on application and on final electrical, mechanical and chemical performance.

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

### FEATURES

- Immediate curing under UV Hg and LED light,
- Easily peelable with no residues left after removal,
- Resin with good cohesive strength, does not tear upon removal,
- Temporary solution with good adhesion on a wide range of substrate (no unwanted delamination)
- Good chemical resistance (does not dissolve with solvents)
- Can be used during the manufacturing, wave soldering and coating application stages (temperature resistance),
- No VOC (Volatile Organic Solvents),
- No ammonia,
- UV fluorescent to control the deposit,
- Compatible with 2 types of irradiation system (UV Hg oven or LED at 395nm)
- Manual or automatic deposit possible.

### APPLICATION

UV peelable is proposed for temporary masking protection of PCBAs.

- Apply UV peelable where protection is needed,
- Cure UV peelable with a 395nm LED lamp
- Continue the process (wave, dispensing)
- Remove UV peelable using tweezers

The curing time varies depending on the thickness and power of the lamp.

- **Under 395 nm LED lamp**

Minimum UVA2 dose: **1500mJ / cm<sup>2</sup> (2 mm)**

Minimum UVA2 dose: **6000mJ / cm<sup>2</sup> (5 mm)**

- **Under Mercury arc lamp**

Minimum UVA dose: **2000mJ / cm<sup>2</sup> (2mm)**

Minimum UVA dose: **6000mJ / cm<sup>2</sup> (5mm)**

A slight residual tack due to the oxygen inhibition in the air can appear. It disappears few minutes after passing under the lamp.

The UV dose given is a minimum to guarantee a good curing of product in depth. A higher dose of UV or an overexposure will not damage the product.

## **PROPERTIES**

### **UV peelable (liquid)**

Composition	Urethane acrylate	
Viscosity	Thixotrope liquid	
Colour	Yellow transparent	...
Solid content	100%	
Recommended thickness	until 5 mm	

### **UV peelable (cured)**

Aspect	translucent
Hardness (shore A)	18
Operating temperature	-20°C to + 120°C
Peel method	manual, Peels easily and does not tear

## **PACKAGING:**

UV peelable  
UV peelable seringue

## **REFERENCES**

UV peelable 01K  
UV peelable 30CC

## **STORAGE AND SHELF LIFE:**

Storage temperature: 5 to 30°C

A temporary lower temperature during few days (transport) doesn't distort varnish properties.

UV peelable must be stored in an opaque container, sealed away from excessive heat, at temperatures not exceeding 40 ° C. UV peelable cures under UV action, it musn't be exposed to any light source.

Shelf life: 12 months after the date of 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.*