TECHNICAL DATASHEET

UV peelable

Dec. 2019

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 immediatly 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).

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 / cm² (2 mm)**
Minimum UVA2 dose: **6000mJ / cm² (5 mm)**

- **Under Mercury arc lamp**

Minimum UVA dose: **2000mJ / cm² (2mm)**
Minimum UVA dose: **6000mJ / cm² (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.