TECHNICAL INFORMATION

BEST-Uvirapid 701

BEST-Uvirapid 701 is an innovative, one-component, solvent-free UV-Highspeed-Adhesive of low viscosity based on a modified acrylate ester.

BEST-Uvirapid 701 shows the following advantages compared to common UV-Adhesives:

- rapid cure
- low energy consumption
- cures within seconds, even when used with a UV-LED-flashlight
- cures with dry surface when used for encapsulating

BEST-Uvirapid 701 cures when exposed to UVA-light with a wavelength range of 320-400nm. It is suitable for temperature- and chemical-resistant bonding of glass and light penetrable plastics together, as well as with metals, plastics and elastomers. At least one of the joining components must be light penetrable.

When used in open applications or for encapsulating the adhesive cures extremely fast with dry surface.

BEST-Uvirapid 701 can be used for:

- encapsulating of electronic components
- fastening of devices on conductor boards
- fixing of wire ends of coils
- coating of soldering contacts of connectors and relais
- surface coating
- sealing of surfaces
- Sealing and repairing of scratches, gaps and shrinkage holes
- bonding of coils with ferrite cores
- bonding of speakers
- bonding of mobile phone casings
- encapsulating of switches
- bonding of glass and translucent plastic materials together or with each other
- bonding of glass and translucent plastic materials with metal, plastics and elastomers

In most cases, expensive UVA-Lamps are not necessary for curing. A simple UV-LED-Flashlight cures the product within seconds.

BEST-Uvirapid 701 combines high strength with a good resistance to heat and chemicals. Its low viscosity provides a good moistening of the joining components.

Best Klebstoffe GmbH & Co.KG • Gewerbestraße 10 - 14 • D-86981 Kinsau • Tel. +49 (0) 8869 - 913840 • Fax +49 (0) 8869 - 9138415 • Mail: info@bestklebstoffe.de • www.bestklebstoffe.de

PROPERTIES OF UNCURED MATERIAL:

Chemical Type	Modified acrylate
Curing System	UV-Light
Colour	Clear to slightly yellow
Viscosity (Brookfield)	approx. 300 mPas (at 25°C)
Density (DIN 51757)	1,2 x 10^3 kg/m^3
Shelf life when stored in unopened container at room temperature (23°C)	3 months

PROPERTIES OF CURED MATERIAL:

Fixture Time / 21 UV-LED Lamp	5 Seconds
Functional strength / UV-Light	5 Seconds
Ultimate Strength	5 Seconds

PROPERTIES AFTER CURE:

Tensile strength	14 N/mm^2
Elongation at break	30 %
Tensile Shearing strength (DIN 53283) Al/Glass	15N/mm^2
Surface	dry
Colour	slightly yellow
Temperature Range	-55 up to 120°C

HEALTH AND SAFETY:

Hazard Statements: Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

General:
The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co. KG. Our information and data have been developed from laboratory tests and extensive practical experience. It is the user's responsibility to perform receiving inspections and to determine suitability for the user's purpose of any production methods. We disclaim all warranties expressed or implied, that any product will have specific properties for a particular purpose. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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