

ADVANCED ADHESIVES FOR LUXURY PACKAGING



Transparent adhesives for glass,
plastics and metals, designed for
efficient high-volume production.

UV- AND LIGHT CURING ADHESIVES FOR LUXURY PACKAGING

In cosmetics and luxury packaging Vitralit® adhesives are used for lid bonding, adhesive reliefs and to attach decoratives and labels. Our adhesives bond glass, plastics and metals.

As the adhesives are transparent and non-yellowing, the bondlines are invisible. The adhesives cure within seconds under UV light, which makes them a cost-effective solution for high volume production.

Non-transparent plastics can be bonded with our methacrylic Penloc® adhesives. They are humidity-proof and shock-resistant.

ADHESION PROPERTIES

- Suitable for bonding a wide range of materials
- Fast, flexible, versatile
- Wide range of applications – from low volume to mass production
- Bonds quickly and reliable
- Universal use and simple handling
- High strength and stability
- Cures at room temperature
- Short curing times
- Resistant to alcohols (perfume)
- Easily incorporated into existing production lines

APPLICATIONS

BONDING OF TRANSPARENT OR OPAQUE GLASS AND PLASTICS

If at least one of the substrates is transparent, the perfect solution for bonding plastic or glass parts are our Vitralit® adhesives. Various viscosity ranges are available to meet the customers’ requirements. These

acrylic based adhesives cure within seconds under UV or visible light, producing high bond strength in short cycle times. Once cured, the adhesives are transparent and non-yellowing, providing an invisible bondline.



DOME COATINGS

Coating of decorative articles– so-called domings or dome coatings – is done by applying and curing a thick, optically transparent layer of adhesive. Domings are often applied to fashion labels on glasses, adhesive labels and quality product labels, for example on whisky and perfume bottles. The doming lends the surface a more refined, higher-quality look and feel while making it resistant against scratching, yellowing and environmental influences.



ADHESIVE RELIEFS

UV curing adhesives with improved flow-control can be used for applying decorative drawings or 3D-reliefs onto glass or plastic bottles or flacons. Drops of cured adhesive can produce a “water drop effect” on glass. Pigmented adhesives are available for coloured designs. These adhesives are easy to dispense, many are jettable or can be applied via screen printing.



BONDING OF DECORATIONS

Specially formulated adhesives are available for bonding various substrates such as metals, leather or fabrics. For those light-impermeable substrates we recommend

our two-component methacrylic adhesives which cure fast at room temperature.



Adhesives for luxury packaging	Application	Viscosity [mPas]	Base	Curing	Color cured	Shore Hardness	Characteristics
Vitralit® E-4731	Glass & plastic bonding (transparent or opaque)	3,200 – 7,300 Rheometer, 10s ⁻¹	Acrylate	UV/VIS	transparent	A 70 – 90	Dry surface, flexible and tearproof
Vitralit® E-4731 VT		700 – 1,400 LVT, Sp. 3/30 rpm				A 60 – 80	
Vitralit® UV E-2114 (HF)	Bonding and sealing of plastic, glass & metal	12,500 Rheometer, 10s ⁻¹	Acrylate	UV/VIS	transparent, slightly yellow	D 45 – 55	Very good adhesion to FR4, low shrinkage
Vitralit® E-VBB-1	Flexible glass & plastic bonding, alternative to silicone	1,450	Acrylate	UV/VIS	transparent	A 83	Optically clear, outstanding flexibility, resistant to moisture
Vitralit® E-VBB-1 Gel		25,000 Rheometer, 10s ⁻¹				A 83 D 21	
Vitralit® UC 6686	Dome coating (plastic, glass & metal), adhesive reliefs	62,500 Rheometer, 10s ⁻¹	Epoxy	UV	transparent	D 80	High-gloss, brilliant surface Hard and scratch resistant
Vitralit® UD 8050	Glass & plastic bonding, encapsulation	8,000 – 11,000 Rheometer, 5s ⁻¹	Isocyanate Acrylate	UV/VIS moisture	slightly yellowish	D 65	Easy dispensing, fast curing, compatible with flux
Structalit® 8801	Potting	30,000 – 45,000 LVT, Sp. 4/6 rpm	Epoxy	thermal	beige	D 80 – 90	Short curing times at low temperatures
Cyanolit® 241 F	Plastic & metal bonding	30 – 50	Cyanoacrylate	room temperature	transparent		Fast bonding of non-transparent substrates, capillary flowing

*UV = 320 – 390 nm, VIS = 405 nm

UV CURING SYSTEMS

Hoenle offers a broad range of UV curing equipment for curing UV adhesives, which are perfectly aligned in terms of wavelength. Our sales engineers and application technicians will assist you in selecting the right UV Equipment in combination with the appropriate adhesive. Thanks to our extensive experience in both areas, we can offer you a system solution that is perfectly tailored to your individual requirements, ensuring maximum productivity and efficiency in your bonding processes.

LED SPOTLIGHTS

High intensity small area UV irradiation

BLUEPOINT



LED LINE EMITTERS

High-power arrays with individual length

LED POWERLINE



LED FLOODLIGHTS

Homogeneous light distribution with high intensity

LED SPOT



LED CURING CHAMBER

Reliable protection against UV radiation

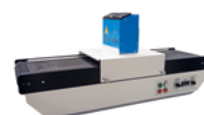
LED CUBE



LED CONVEYOR BELTS

Can be combined with LED Powerline or LED Spot for high output

CONVEY LED



UV-MEASUREMENT

Measurement of intensity and dose for reliable process monitoring

UV METER



UV Sources	Dimension in mm	Available Wavelength in nm	Intensity in mW/cm ²	Cooling
LED Spotlights	Light emission up to Ø 20	365/385/405	up to 20,000	air-cooled
LED Line Emitters	Light emission width 10/20/40, length variable	365/385/395/405/460	up to 25,000	air and water-cooled
LED Floodlights	Light emission 20x20 / 40x40 / 100x100 / 200x50	365/385/395/405/460	up to 30,000	air and water-cooled
LED Curing Chambers	Inner dimension 180x180 / 350x350	365/385/395/405/460	up to 5,000	air-cooled
LED Conveyor Belts	Belt width 110 – 520	365/385/395/405/460	up to 25,000	air and water-cooled

Hoenle Adhesives GmbH
Stierstädter Straße 4
61449 Steinbach GERMANY

Phone: +49 6171 6202-0
adhesivesystems@hoenle.com



For worldwide sales & technical support, please refer to our global contact directory www.hoenle.com/contact

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