hönle group

panacol adhesives & more

Innovative Adhesives for Luxury Packaging

Adhesives

- Glass Bonding
- Lid Bonding
- Adhesive Relief
- Attachments of Decoratives
- Dome Coating

UV Curing Systems

- Equipment for UV and LED Curing Adhesives
- LED Equipment With High Intensities
- Point Sources
- Flood Lamps

UV- and Light Curing Adhesives for Luxury Packaging

In cosmetics and luxury packaging Vitralit® adhesives are used for lid bondings, adhesive reliefs and attachment of 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.

Adhesive Properties

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

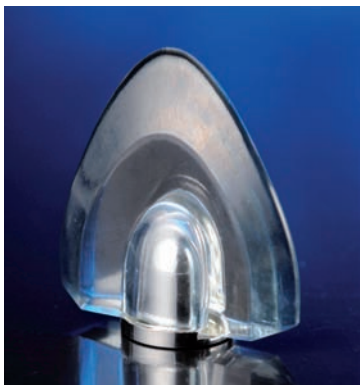
Bonding of Transparent or Opaque Glass and Plastics

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, high-quality look and feel while making it resistant against scratching, yellowing and environmental influences.

A transparent epoxy resin-based adhesive is applied to create a doming for key rings

Adhesive Reliefs

UV curing adhesives with improved flow-control can be used for applying decorative drawings or 3D-reliefs onto glass or plastic bottles and 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.

Adhesive Overview

Adhesives	Viscosity [mPas]	Curing*	Color of cured adhesive	Shore hardness	Properties
Vitralit® VBB-1 T	20,000–35,000	UV/VIS	Transparent	A 60–80	Excellent adhesion to plastics, especially ionomer resins such as Surlyn, non-yellowing, available in different viscosities
Vitralit® 4731 VT	22,000–28,000	UV/VIS	Transparent	D 30–50	Excellent adhesion to plastics, anodized plastics, glass, ceramics
Vitralit® 7311 T	15,000–17,000	UV/VIS	Transparent	D 40–50	Excellent adhesion to plastics, glass and metals, non-yellowing, resistant to humidity and alcohols
Vitralit® 6300	3,000–5,000	UV/VIS/Thermal	Transparent	D 55–75	Jettable, non-yellowing, very high adhesion to glass and metals, dual curing
Vitralit® 6133	600–1,000	UV/VIS	Transparent	D 65–85	Jettable, impact resistant, non-yellowing, very high adhesion to glass and metals
Vitralit® UC 6025	1,450	UV/VIS	Transp., yellowish	D 60	Fast curing epoxy resin, flexible, easy to dispense, very high adhesion to plastics
Vitralit® UC 6215 T	41,000	UV	Transparent	D 65–85	Jettable, impact resistant, very high adhesion to glass and metals, suitable for creating “drop-effects” on glass or plastics
Vitralit® UC 6686	55,000–80,000	UV	Transparent	D 75	Suitable for dome coatings and “drop-effects” on glass or plastics, scratch-resistant, non-yellowing
Penloc® GTN	15,000–30,000	RT	Transp., greyish	D 50	Two-component methacrylate, flexible, high temperature stability
Penloc® GTR-VT	20,000–30,000	RT	Green	D 65–75	Two-component methacrylate, jettable, shock resistant, excellent adhesion to metals, glass, plastics
Structalit® 8801	30,000–45,000	Thermal	Beige	D 80–90	Epoxy-based resin, resistant to high temperatures and oil/grease, perfect choice for ring applications
Cyanolit® 241 F	30–50	RT	Transparent	n.a.	Instant adhesive, plastic bonder, perfect choice for mirror bonding
Cyanolit® 5250	2,200	RT	Transparent	n.a.	Instant adhesive, plastic bonder, perfect choice for mirror bonding

*UV = 320 – 390 nm, VIS = 405 nm, RT = room temperature

Hönle UV Lamps

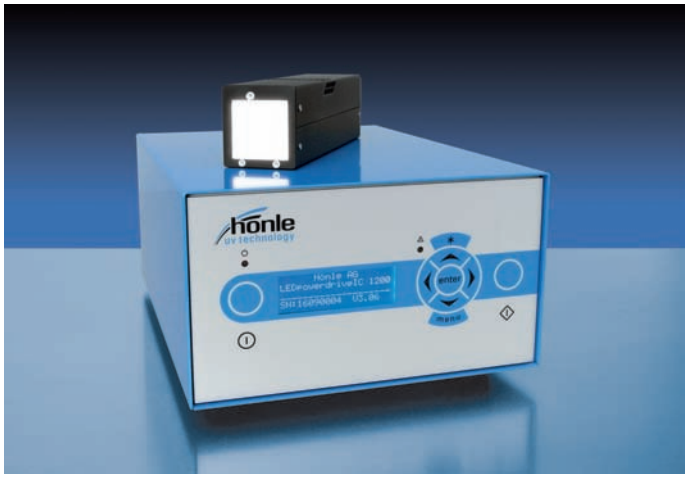
The curing of Vitralit® products can be best optimized with Hönle UV equipment.

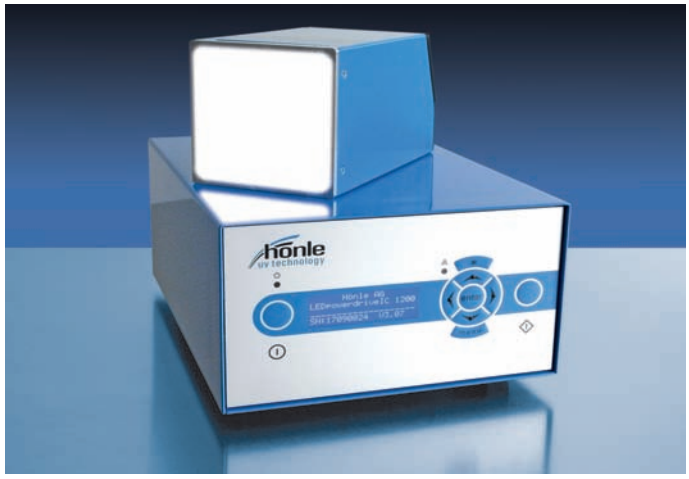
Hönle provides custom-made products adjusted to the individual requirements:

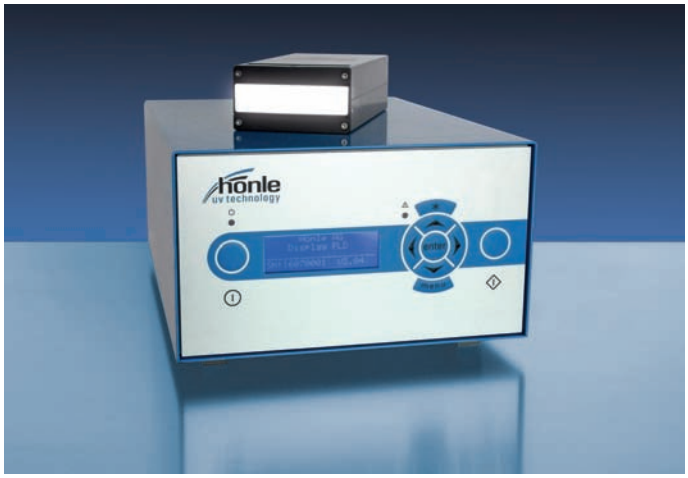
- UV point sources
- UV flood lamps
- UV curing chambers

Hönle UV LED Lamps

In addition to conventional UV curing technology with gas discharge lamps Hönle is also a leading supplier of UV-LED systems.







You can find further information about our product groups in our special product data sheets.
For our comprehensive range of accessories for each product series, please ask for detailed information sheets.

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Engineered Adhesives UV Adhesives Conductive Adhesives Potting Curing

aladin eleco-efd eltosch grafix hönle panacol printconcept raesch uv-technik speziallampen

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Operating parameters depend on production characteristics and may differ from the foregoing information.
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