

## Press information

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# New UV adhesive for the encapsulation of flexible PV modules

**Panacol has developed a new UV adhesive specifically for foil lamination of organic (OPV) and perovskite-based (PSC) photovoltaic systems: Vitralit® UH 1411 is a very flexible, hybrid epoxy resin-acrylate adhesive that cures with UV light.**

Vitralit® UH 1411 is a UV adhesive specially developed for sealing and bonding flexible PV modules. After application, Vitralit® UH 1411 can be cured by a combination of UV or visible light and heat, which enables precise curing even in potential shadow zones. Dr. Hönle's LED curing systems, such as the Powerline 820 HP AC IC, are particularly suitable. The modules of the Powerline can be stacked without gaps to completely irradiate the desired width. The intensity is adjustable and can be adapted to the web speed in the range of 10-100%, ensuring consistent curing results. The LED Powerline 820 AC IC HP is supplied and controlled either via the optionally available LED powerdrive IC or via an external power supply unit and customer-side control of the interface.

Once cured, the hybrid adhesive Vitralit® UH 1411 is very resistant to environmental and media influences, as well as being soft and flexible, thanks to its composition of epoxy resin and acrylate components. Vitralit® UH 1411 thus offers an optimized solution for the integration of flexible solar cells in modern indoor concepts.

A key advantage of Vitralit® UH 1411 is its high adhesion to all standard barrier foils and films used in the manufacture of flexible photovoltaic modules. The adhesive strength can be maintained even after high exposure to temperature and humidity. The adhesive is also transparent and non-yellowing, which ensures optimum light absorption and a long service life for the PV modules.

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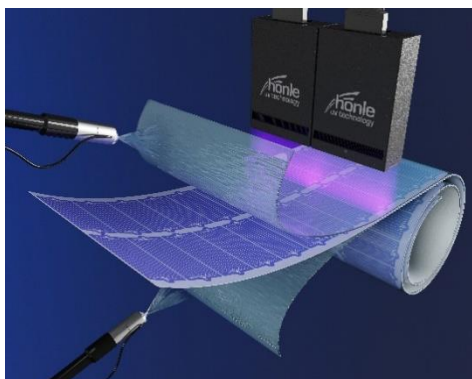
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Organic and perovskite-based photovoltaic systems enable completely new applications both indoors and outdoors. The capture of artificial light indoors can be used to power wireless electronics. The flexibility of the new modules also makes it possible to attach them to geometrically challenging surfaces. The further development of adhesive technologies has made a decisive contribution to these advances. Panacol accompanies these developments by providing innovative high-tech adhesives that can be individually adapted to the relevant customer application.

**Visit us from February 25-27, 2025 at the LOPEC in Munich, Stand B0 614 to find out more about our latest adhesive developments.**

### **About Panacol**

*Panacol-Elosol GmbH, a Hönle company, is an internationally active supplier in the growth market for industrial adhesives with a broad product range from UV adhesives to structural adhesives and conductive adhesives. Together with Dr. Hoenle AG, the parent company of the Hönle Group and the world's leading supplier of industrial UV technology, Panacol presents itself as a reliable system provider from bonding to curing of adhesives.*



#### **Caption:**

*Vitralit® UH 1411 is applied to the barrier foil to seal the sensitive PV modules.*

**Photo:** Panacol

**Note:** *The photographic material may only be published in connection with the associated press release.*