

Press information

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New UV/moisture potting material for electronics and sensor assembly

Panacol is expanding its portfolio of dual-curing acrylate adhesives with another high-performance, one-component adhesive system. Vitralit® UD 8060 F offers high elongation at break, making it a perfect potting material for electronics and sensor assembly.

Vitralit® UD 8060 F is formulated with a modified isocyanate acrylate and can be cured by irradiating with broad spectrum UV-A or by using LED wavelengths of 365 or 405 nm. The initial curing of Vitralit® UD 8060 F using UV/visible light secures the adhesive with the component in only a few seconds. The adhesive will then utilize atmospheric humidity and surface moisture to complete its curing in areas that were shadowed from UV/visible light exposure. This second phase of curing occurs without imparting thermal stress on sensitive electronic components. The Vitralit® UD 8060 F adhesive system relies on both UV/visible light exposure and reactivity to atmospheric humidity for proper curing and cross-linking.

The rapid build-up of mechanical strength prevents warping of the bonded substrates and enables the components to be processed or transported quickly. This makes Vitralit® UD 8060 F ideal for applications with shadow zones or complex component geometry. These challenges are often found in consumer electronics when securing components on printed circuit boards (PCBs), or in sensor assembly.

Vitralit® UD 8060 F is characterized by a high elongation at break of up to 130 % and very good adhesion to various substrates such as PC, PMMA, FR4, copper and aluminium. Its temperature resistance ranges from -40 °C to +130 °C. The adhesive also demonstrates very good resistance to humid conditions. Bond strength values remain consistent after 85/85 tests (85 °C / 85 % RH, 120 h).

Compared to other products in the Vitralit® 80 series, Vitralit® UD 8060 F offers a particularly soft, flexible bond that can absorb mechanical stresses well. This property makes the adhesive ideal for bonding materials with varying thermal

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expansion coefficients, and for applications in which vibration loads can occur. Vitralit® UD 8060 F is a transparent UV adhesive that contains a fluorescent tracer that is only seen when exposed to UV light. This permits fast visual inspection for enhanced quality control.

Like all Panacol adhesives, Vitralit® UD 8060 F is RoHS-compliant and free from heavy metals and phthalates. As a subsidiary of UV equipment manufacturer Dr. Hönle, Panacol offers UV/LED equipment perfectly matched to its adhesives. Curing systems include spot, line and area lamps, UV chambers and conveyors. To maintain a controlled UV curing process, Hönle provides UV measurement instruments including meters and sensors that can precisely measure light intensity and dosage.

About Panacol

Panacol-Elosol GmbH, as part of the Hoenle Business Unit Adhesive Systems, is an internationally active manufacturer 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:

UV-curable potting Vitralit® UD 8060 F is cured with a Hoenle Spot 40 IC in an electronic housing with shadow zones

Photo: Panacol

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