

Press information

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New epoxy adhesive offers maximum protection for potting applications

Developed by Panacol, Structalit® 5801 is a new 2-component adhesive system that demonstrates exceptional chemical and moisture resistance after accelerated aging. This resistance makes Structalit® 5801 an ideal material for the structural bonding and potting of electronic components that require the highest level of environmental protection.

Structalit® 5801 is a black, 2-component epoxy adhesive system with a simple 2:1 mixing ratio. Curing takes place within 12 hours at room temperature. For faster processing, this adhesive can also be cured thermally, in as little as 30 minutes at a moderate temperature of 80°C. Lower temperature curing minimizes thermal stress on components, and the shorter cycle time improves productivity. This medium-viscosity adhesive blend has excellent adhesion to metals including aluminum and stainless steel. It is well suited for the structural bonding of metal frames and housings. Structalit® 5801 also exhibits very good adhesion to plastics, such as PA6 GF or PBT. This multi-substrate adhesion allows Structalit® 5801 to be used for many material combinations typically found in the consumer and automotive electronics industries.

This newly developed adhesive cures with low shrinkage, and exhibits good vibration and shock resistance due to its high bond strength and unitizing properties. During aging tests at temperatures above 130°C, Structalit® 5801 actually gains bond strength. Adhesive exposure to transmission oil, biodiesel, and alcohol during aging resulted in minimal loss of bond strength. This is mainly due to the high degree of crosslinking and the low moisture absorption of this adhesive.

Structalit® 5801 can be dispensed from a 50 ml dual-chamber cartridge which is ideal for manual, short-run, or semi-automated production. This epoxy system is also available in sedimentation-stable bulk containers which can be used with meter-mix equipment for high volume production.

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About Panacol

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



Caption:

Structalit® 5801 is applied as potting to protect printed circuit boards in enclosures.

Photo: Panacol

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

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