



SOLE DISTRIBUTORS OF
REINHARDT-TECHNIK
Machines for the application of adhesives & sealants
PANACOL ELOSOL
Adhesive systems



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Technical Data

THERMALLY CONDUCTIVE ACRYLIC ADHESIVE

VITRALIT 6129 is a filled, thermally conductive adhesive for mounting heat sinks and heat sensitive electronic components to boards or any application where it is desirable to increase thermal conductivity between assembled parts. It is cured with UV light or heat as low as 120°C or with an activator. It also exhibits high moisture resistance. The bond line cannot be made transparent.

Uncured properties

Composition	Modified acrylic
Colour	Off-white
Viscosity	51,000 cps flowable paste
Toxicity	very low
Specific gravity	1.75

Cured Properties

Tensile shear strength ASDM-D01002 (steel)	17.5 N/mm ²
Thermal range	-50 to +180°C
UV cure 200 w/inch Mercury- vapour lamp	1.5mm
Heat cure	2.5mm
Co-efficient of thermal conductivity	5-7BTU-in/Hr-Ft-°F
Dielectric strength	800 volt/mil

Cure Data

UV light

Hard tack free films develop in 30 seconds when cured under standard 200 w/inch Mercury air lamps. Fillets or gaps up to 1.5mm can be cured with UV light.

Heat

Heating to 120°C for 20 minutes or 150°C for 10 minutes will affect a full cure.

The above cure methods may be combined to obtain the desired cured joint, ie some applications require a cured fillet around a bonded part.

Factors effecting curing

- Dark surfaces lengthen cure time
- Heat from high intensity lamps shortens cure times.
- Full range UV-A, B & C lamps provide faster cures than filtered sources.
- All UV sources degrade with use. Check output with a radiometer.
- Thicker films require longer cures.
- Light intensity decreases as distance from UV source increases.
- Some clear plastics may contain UV inhibitors.

Handling and dispensing adhesive

VITRALIT 6129 may be dispensed with a variety of automatic bench-top syringe applicators or other equipment as required. Repeated or continuous skin contact should be avoided. Do not wear jewellery and use barrier hand cream. Do not wear absorbent gloves. Adhesive may be removed with hand soap and water. Avoid eye contact. See Caution below. Wipe excess adhesive with paper towels and remove residue with chlorinated solvents, ethanol or Isopropanol.

Storage and shelf life

Store material in a cool dark place when not in use. Do not place in view of UV light source or sunlight. This product is developmental with no shelf life stipulated.

Precaution when using UV lamps

- Never look directly at any UV source
- Wear protective UV goggles
- Do not expose bare skin to high intensity UV light; wear protective clothing
- Provide shielding around high intensity UV sources
- High intensity UV sources generate heat. Take appropriate precautions.

CAUTION

For industrial use only. Avoid breathing vapours. Avoid contact with eyes and clothing. In case of contact, immediately flush with plenty of water for at least 15 minutes; for eyes get medical attention. Wash clothing before re-use. Keep out of reach of children. Do not take internally. If swallowed, vomiting should be induced at once and a physician called.

