



UV-Glue



General information

UV-Glue is a high-performance one-component, light-curing adhesive designed for precise bonding applications at elevated temperatures. It is used for bonding base-free wire strain gauges and allows strain measurement at temperatures of 200–350°C, which, on the one hand, are too high for conventional strain gauges on a film substrate, and, on the other hand, are too low for it to be expedient to use strain gauges bonded with high-temperature ceramic cement.

In general, the technique of bonding a base-free wire strain gauge using UV-Glue is similar to bonding with ceramic cement. The difference is that each layer of UV-Glue is cured by ultraviolet in a few minutes, whereas ceramic cement must be heat-treated in an oven for several hours.

The operating temperature range of the adhesive is: –30°C to +300°C (short-term up to 350°C).

Also, UV-Glue can be used for fixing elongation wires and thermocouples.

Main Application

For bonding of high-temperature wire strain gauges and fixing of elongation wires and thermocouples.

Surface Preparation Requirements

- Clean the bonding surfaces thoroughly using acetone, ethanol, or isopropanol to remove grease, dust, or other contaminants.
- The surface should be dry, clean, and free of oxidation prior to adhesive application.
- Avoid touching the prepared surface with bare hands before bonding.

Storage Conditions

- Store in a cool, dry place, away from direct sunlight and heat sources.
- Do not expose to UV light during storage.
- Keep the container tightly closed when not in use.

Precautions and Recommendations

- Avoid direct contact of the adhesive or uncured material with skin or eyes.
- Use in a well-ventilated area.
- Wear protective gloves and safety glasses during application.
- Do not expose adhesive to ambient UV light before use to prevent premature curing.
- Dispose of cured and uncured material according to local regulations.

Packing

1 tube: 5 ml/tube or 20 ml/tube

Shelf Life

12 months from the date of production under recommended storage conditions.