



AD2103 Datasheet

Electronic Materials

UV & Thermal Dual-Cured Adhesive

Material Description

AD2103 is a UV/ thermal dual-cure adhesive developed for structural bonding of glass and metal. It has fast curing in UV light with outstanding bonding strength, flexibility. And the shadow area can be cured by heat.

Features and Benefits

- UV fast curing
- Heat curing
- One component, no mixing required
- Good bonding strength on glass and metal
- Low coefficient of thermal expansion
- Low curing shrinkage
- High temperature high humidity resistance
- Working temperature -40-120°C

Curing Profile

Recommended cure:

UV Curing @ 365nm UV-LED for 2000-4000 mJ/cm² plus
 Heat Curing @ 80°C for 60-90mins
 Or 90°C for 30-60mins

Contact HB Fuller technical support for additional curing recommendations

Typical Uncured Properties

| Property | Value |
|---------------------------------|----------------|
| Appearance | white |
| Component: | cationic epoxy |
| Viscosity (25°C,CP52,10rpm),cps | 15,240 |
| TI(1.0/10.0rpm) | 6.8 |
| Density, g/cm ³ | 1.60 |

Typical Cured Properties

| Property | Value | |
|---|---|------|
| Photo curing depth, mm (3000mJ/ cm ²) | 2.1 | |
| Tensile Strength/Mpa | 55.8 | |
| Elongation/% | 1.7 | |
| Hardness, shore D | 90 | |
| Moisture absorption% | 0.6 | |
| Volume Shrinkage/% | 0.8 | |
| Tg ,°C (TMA) | 143 | |
| Storage modulus, GPa(25°C) | 7.2 | |
| α1, ppm/K | 38.9 | |
| α2, ppm/K | 64.0 | |
| OLSS, Mpa | Glass/Anodized Al 3000 mJ/cm ² | 2.9 |
| | Anodized Al/Anodized Al 95°C 70min | 38.5 |

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Application Instructions

1. Coating surface area should be clean and free of any fluxes, residues, dust or any other contaminants.
2. A UV lamp with a wavelength of 365nm is required. The UV light should be focused towards the coated surface.
3. Curing speed is determined by the intensity of UV radiation, the distance from the UV light source and the coating surface. The depth of coating material can also require additional cure time.
4. Immediately close the lid after use. A black hose must be used to dispense the adhesive.
5. This material should be stored away from sunlight, UV light and artificial light sources.

Storage Conditions

Product should be stored at temperature $-20(\pm 2)^{\circ}\text{C}$ in the unopened container in a dry location.

Shelf Life: 6 months

Typical Packaging

Please contact your local Sales Office for available packaging options.

Disposal Advice

Please refer to the MSDS for disposal instructions.

Safety Advice

Please refer to the MSDS for safety advice.

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