PENCHEM
BONDING TECHNOLOGIES TOGETHER

Management System ISO 9001:2015 ISO 14001:2015 IATF 16949:2016
TÜVRheinland CERTIFIED
www.tuv.com ID 9105064144

UV 566-17
Structural UV Epoxy

Description

UV 566-17 is a fast cure, medium viscosity UV-curable epoxy system. The cured material has good toughness and good adhesion to a variety of substrates including metals and plastics. It has low odor, and low skin and eye irritation potential. It does not contain volatiles and is very suitable for electronic applications. It is not inhibited by oxygen during UV cure. The thixotropy has been adjusted to control excessive overflow.

Applications

1. UV curable adhesive for plastics and metals.

Guidelines for Use

1. Thaw the epoxy to room temperature (25ºC) before use.
2. Dispense the epoxy by using a syringe.
3. Wipe off any excess uncured adhesive with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue dabbed with iso-propanol.alcohol (IPA).
4. Expose the epoxy to long UV wavelength light in the 320-380 nm range at 1000 mW/cm^2 for 3 seconds.
5. If necessary, ultimate properties may be obtained faster by additional curing of the epoxy in a convection oven at 120ºC or higher for 60 minutes.

Properties

Property	Test Method	Unit	Typical Value
Chemical type			Epoxy
Appearance	Pen 10		Translucent liquid
Mix ratio, by weight			One component
Shelf life, -20ºC	Pen 26	Month	6
Pot life, 25ºC	Pen 26	Day	5
Viscosity,25°C, 5rpm	Pen 44	cP	6,000
Thixotropic Index	Pen 37		3
Flow Test 45 degree, 25°C, 30min	Pen 15	mm	0
Hardness	Pen 29	Shore D	80
Tg	Pen 64	°C	105
CTE, alpha-1	Pen 64	ppm/K	55
alpha-2	Pen 64	ppm/K	180

Recommended Cure

Pre-Cure

UV (mW/cm^2)	Cure time
1000	3 sec
500	6 sec
200	15 sec

Post Cure

Temp.	Cure Time
120 °C	30 min

Storage

Tightly close original container of unused product. Store below -20ºC. Storing at lower temperatures down to -40ºC may prolong shelf life beyond 6 months. However it may take longer time to thaw the product.

Packaging

- 5ml Black EFD Syringe
- 10ml Black EFD Syringe
- 30ml Black EFD Syringe

Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

Contact Information

Penchem Technologies Sdn Bhd (767120-A), 1015, Jalan Perindustrian Bukit Minyak 7, 14100 Penang, Malaysia
T: +604-501 5976, 77, 78, 79
E: enquiry@penchem.com
W: www.penchem.com

Revision 3.3-Jul-18.LT