PENCHEM
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Management System ISO 9001:2015 ISO 14001:2015 IATF 16949:2016
TÜVRheinland CERTIFIED
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UV 379-1
High Thixo UV Epoxy

Description

UV 379-1 is a fast cure, low viscosity UV-curable epoxy system. The cured material has excellent flexibility, good toughness and good adhesion to a variety of substrates including metals and plastics. It has a 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, has low shrinkage, and good resistance to yellowing. It has medium thixotropic which can control the flow of the adhesive.

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 400 mW/cm^2 for 5 seconds.
5. If necessary, ultimate properties may be obtained faster by additional curing of the epoxy in a convection oven at 60ºC or higher for 30 minutes.

Properties

Property	Test Method	Unit	Typical Value
Chemical type	-	-	Epoxy
Appearance	Pen 10	-	Translucent liquid
Mix ratio, by weight	-	-	1
Specific gravity, 25°C	Pen 61	g/cm^3	1.16
Shelf life, 25°C	Pen 26	Month	6
Refractive index, 25°C		-	1.523
Viscosity, CAP 2000+, 100rpm, C06, 25°C	Pen 44	cP	17,500
Thixotropic index		-	1.8
Hardness, 3.0mm thick	Pen 29	Shore D	82

Recommended Cure

UV (mW/cm^2)	Cure time
400	5 sec

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. Avoid heating and direct exposure to sunlight.

Packaging

- 10ml black EFD syringe
- 30ml black EFD syringe
- 500g black plastic bottle

Environment, Health & Safety

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

Contact Information

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