



PT 380-1 White Potting Epoxy

Description

PT 380-1 is a two-part white potting compound based on epoxy resins. When fully cured the surface is glossy, blush free and hard. It has very good scratch and water resistance. This system has enhanced glass, adhesion and wets ceramics, most plastics and metals well. The mixed epoxy has low viscosity to ensure good flow, good seepage into every corners and minimal trapping of bubbles. lt is specially developed for low stress potting and encapsulation of electronic components.

Applications

 White potting or back-fill epoxy for electrical and electronic devices.

Guidelines for Use

- Mix Part A resin and Part B hardener in the ratio of 2.0:
 1.0 by weight.
- The pot life is more than 60 minutes. Processing or pouring the mixed epoxy after 1 hour may tend to trap bubbles.
- The epoxy may be poured over the object, spread with a brush, or dispensed with a syringe.
- Blowing hot air over the surface of the epoxy can break any bubbles formed during mixing.
- Wipe off any excess uncured epoxy with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue wetted with isopropanol (IPA).

Properties

Property	Test Method	Unit	Typical Value		
			Part A Resin	Part B Hardener	Mixed
Chemical type	-	-	Epoxy	Amine	
Appearance	Pen 10	-	White liquid	Clear Yellowish Liquid	White Liquid
Mix ratio, by weight	-	-	2.0	1.0	
Shelf life, 25°C	Pen 26	Month	12	12	
Pot life, 25°C	Pen 26	Hour			1
Viscosity, CAP2000+ Viscometer, 25°C	Pen 44	cps	14,300	67	1,720
Specific gravity	Pen 14		1.17	0.95	1.13
Hardness, cured 25°C for 24 hr	Pen 29	Shore D			84
Water boil	Pen 21	%			1.0
CTE 1		ppm/K			50
CTE 2		ppm/K			203
Glass Transition Temperature,Tg		°C			60

 The epoxy will harden in 24 hours. Full hardness will be achieved in 3 days. Faster curing can be achieved at elevated temperatures, eg. 50° C for 3 hours.

Recommended Cure

Alternative cure	Temp. (°C)	Cure time
Α	25	24 hr
В	80	2 hr

Storage

Tightly close original container of unused product. Store in a cool and dark place.

Packaging

- 1 kg plastic bottle
- 5 kg 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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