

GL 307

Structural Epoxy Adhesive

Description

GL 307 is a structural epoxy adhesive based on epoxy resins. It has very good water resistance and has enhanced adhesion. This system is of low viscosity and wets the glass fiber network well. It is recommended for structural applications, laminations, and for quality boats.

Applications

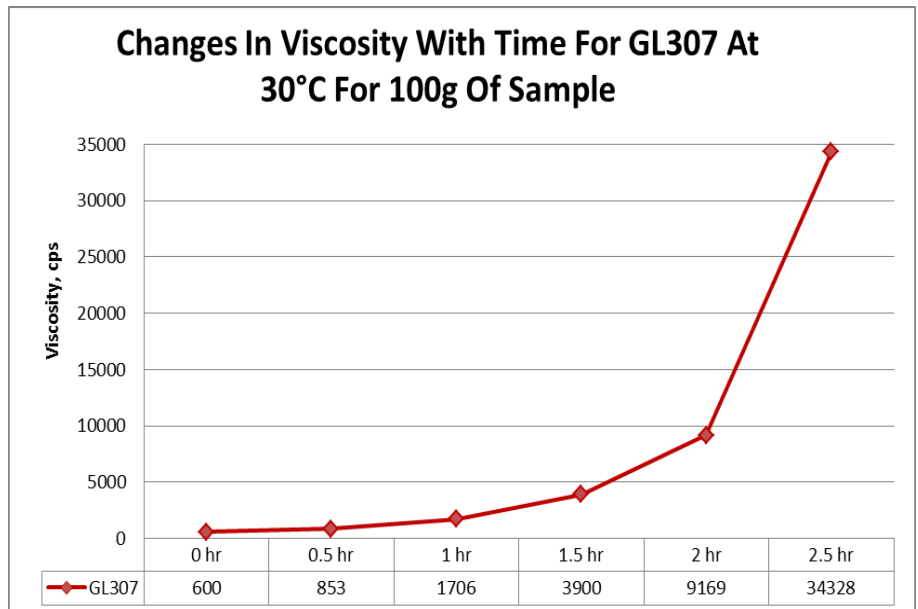
1. Low viscosity, good seepage epoxy adhesive for fiber reinforced structures.

Guidelines for Use

1. Mix Part A resin and Part B hardener in the ratio of 3 : 1 by weight.
2. The pot life is 60 minutes. Processing or pouring the mixed epoxy after 1 hour may tend to trap bubbles.
3. The epoxy may be poured over the object, spread with a brush, or dispensed with a syringe.
4. Blowing hot air over the surface of the epoxy can break any bubbles formed during mixing.
5. Wipe off any excess uncured epoxy with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue wetted with iso-propanol (IPA).
6. The epoxy will harden in 24 hours. Full hardness will be achieved in 3 days. Faster curing can be achieved at elevated temperatures.

Properties

| Property | Test Method | Unit | Typical Value | | |
|---|-------------|---------|---------------|------------------------|--------------|
| | | | Part A Resin | Part B Hardener | Mixed |
| Chemical type | - | - | Epoxy | Amine | |
| Appearance | Pen 10 | - | Clear liquid | Clear yellowish liquid | Clear liquid |
| Mix ratio, by weight | - | - | 3 | 1 | |
| Shelf life, 25°C | Pen 26 | Month | 12 | 12 | |
| Pot life, 30°C | Pen 57 | Hour | | | 1 |
| Viscosity, CAP 2000+ Viscometer, 30°C | Pen 44 | cP | 6000 | 28 | 700 |
| Hardness, cured 30°C for 5 days | Pen 29 | Shore D | | | 74 |
| Tensile strength, cured 30°C for 5 days | Pen 41 | MPa | | | 75 |
| Young's Modulus, cured 30°C for 5 days | Pen 41 | MPa | | | 3000 |
| Strain to failure (percentage of elongation), cured 30°C for 5 days | Pen 41 | % | | | 3.5 |



7. Handle Part B with protective equipment. Do not expose to atmosphere more than 10 minutes.

Storage

Tightly close original container of unused product. To 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

Penchem Technologies Sdn Bhd
(767120-A), 1015, Jalan
Perindustrian Bukit Minyak 7,
14100 Penang, Malaysia
T: +604-501 5976, 77, 78
F: +604-501 5979
E: enquiry@penchem.com
W: www.penchem.com

Revision 1.15-Mar-17.FM