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# TECHNICAL BULLETIN
# LEECAST 20-73

## Description

LEECAST 20-73 is a two-part, reversion resistant, electrical grade room temperature curing potting compound. It is a unique urethane system that contains neither MOCA nor TDI. LEECAST 20-73 is designed to provide excellent dielectric properties over a wide temperature range. It has good low temperature flexibility and is ideally suited for protecting pressure sensitive glass diodes and other electronic devices. Its low viscosity and long pot life make it attractive for penetrating complex modules and for the aggregate casting method of encapsulation and potting. LEECAST 20-73 also features excellent reversion resistance or hydrolytic stability.

| TYPICAL PROPERTIES | | |
|---|---|---|
| | **Part A** | **Part B** |
| Appearance | Pale yellow liquid | Brown liquid |
| Viscosity, 25°C, cps. | 2,700 | 50 |
| Density, lbs/gal | 7.6 | 10.0 |
| Specific Gravity, g/ml | 0.9 | 1.2 |
| Shelf Life, months | 12 | 12 |

## Handling and Mixing

LEECAST 20-73 may be mixed and poured at room temperature without de-airing. Air bubbles mixed into the system will rise out of the liquid before gellation.

A typical cure cycle is overnight at 25°C plus 2 hours at 80°C or 72 hours at 25°C.

| TYPCIAL HANDLING PROPERTIES | | |
|---|---|---|
| | **Part A** | **Part B** |
| Mix Ratio, by volume | 100 | 19 |
| Mix Ratio, by weight | 100 | 25 |
| Gel Time, 25°C, 100 g, min. | 99 | |
| Cure Time, 25°C, hours | 72 | |
| Hardness, 25°C, Shore A | 45 | |

## Safety

LEECAST 20-73 Part B is a super cooled liquid and may crystallize. Store at 75–95°F. If crystallization occurs, heat to 120°F in a vented oven. Do not overheat. Avoid skin contact and do not inhale vapors. Always use in a well-ventilated area.

**Note:** Leepoxy can formulate all of its two-part urethane encapsulants to provide alternative pot life/cure time combinations without affecting handling or performance properties.