

# 20-3302

## WATER CLEAR OPTICALLY TRANSPARENT EPOXY POTTING COMPOUND & ADHESIVE

### DESCRIPTION:

20-3302 is a two component, *ultra clear* epoxy system. It provides excellent optical transmission along with outstanding adhesion and electrical properties. This high purity grade polymer system is formulated with proprietary ultraviolet protectors to minimize yellowing of the cured epoxy. This adhesive/potting compound, when UV aged in a QUV Weatherometer, outperforms other commercially available epoxy systems.

20-3302 is a low viscosity system designed for L.E.D. encapsulating, fiber optics, and any potting or adhesive application requiring optimum clarity. This epoxy system also provides a bubble free and glass smooth finish.

20-3302NCLV is a lower viscosity version of 20-3302. Both resins utilize the same curing agent.

### FEATURES:

- Low viscosity
- Outstanding electrical properties
- Water clear
- Bubble free castings

### TYPICAL SPECIFICATIONS:

Viscosity, cps, 25 °C	
20-3302RCL Resin	6000
20-3302RNCLV Resin	3000
20-3302CCL Catalyst	100
20-3302RCL Mixed	500
20-3302NCLV Mixed	250
Color	Water clear
Hardness, Shore D	85
Mix Ratio (Resin:Catalyst)	
By Weight	100:50
By Volume	100:60
Operating Temperature Range, °C	-45 to +135
Pot Life, 100 grams, 25 °C	30-45 Minutes
Specific Gravity, 25 °C	
20-3302RCL/20-3302RNCLV Resin	1.1
20-3302CCL Catalyst	0.96
Lap Shear	2,250
Refractive Index	1.523 at 589 nm
Spectral Transmission, cured, >95%	580 - 1600 nm



Coefficient of Linear Thermal Expansion  
(30°C - 90°C) ppm/°C 62

**INSTRUCTIONS FOR USE:**

1. By weight, thoroughly mix 100 parts 20-3302RCL/20-3302RNCLV resin to 50 parts 20-3302CCL catalyst. By volume thoroughly mix 100 parts resin to 60 parts catalyst.
2. Degas, pour, and cure according to one of the following recommended cure schedules:
  - a) 25 °C 24 Hours
  - b) 50 °C 1-2 Hours

**STORAGE, HANDLING, & SAFETY:**

Store both components at 25 °C in original containers. The expected shelf life is 12 months in original containers.

Please read the Safety Data Sheet before using this or any other chemical.

**AVAILABILITY:**

This product is available in quarts, gallons, and 5-gallon pails.

**IMPORTANT:**

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