

# 20-3004 LV (Low Viscosity) 20-3004 HV (High Viscosity) CHEMICAL RESISTANT EPOXY SYSTEM

## DESCRIPTION:

20-3004 LV & HV are two component chemical resistance epoxy systems. They were developed for potting, coating, and adhesive applications requiring superior chemical resistance. They exhibit outstanding bonds to a variety of substrates.

20-3004 LV is a low viscosity self leveling system. 20-3004 HV is a high viscosity non-sag version.

## FEATURES:

- Excellent chemical resistance
- Excellent water resistance
- Excellent adhesion to metals & plastics
- DOT noncorrosive

## TYPICAL SPECIFICATIONS:

	<u>LV</u>	<u>HV</u>
Color		
Resin	Black	Black
Hardener	White	White
Mixed	Grey	Grey
Viscosity, 25°C, cps		
Resin	9,000	Gel
Hardener	5,000	Gel
Specific Gravity, 25°C		
Resin	1.17	1.06
Hardener	1.17	1.06
Mix ratio by volume (Resin:Hardener)	2:1	2:1
Mix ratio by weight (Resin:Hardener)	100:45	100:45
Gel time, 100 grams, 25°C	90 minutes	90 minutes
Operating Temperature, °C	-50 to + 140°	-50 to + 150°
Glass Transition Temp., °C	50	50
Tensile strength, psi	7,600	7,600
Tensile elongation, %	3.2	3.2
Hardness, shore D	78	78
Dielectric constant	3.61	3.61
Dissipation factor	0.021	0.021



## CHEMICAL RESISTANT DATA FOR 20-3004 LV & HV, % WEIGHT GAIN

	<u>3 days</u>	<u>28 days</u>
Deionized water	0.52	1.55
Methanol	7.16	9.38
Ethanol	2.41	6.92
Toluene	0.05	2.26
Xylene	0.02	0.20
Butyl Cellosolve	0.56	2.41
Methyl Ethyl Ketone (MEK)	17.17	Destroyed after 28 days
10% Lactic Acid	0.76	2.99
10% Acetic Acid	1.70	5.64
70% Sulfuric Acid	0.01	0.36
50% Sodium Hydroxide	0.05	0.09
10% Sodium Hypochlorite	0.49	1.16
1, 1, 1 Trichloroethane	0.02	0.64

Samples cured for 7 days @ 25°C before testing.

### IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

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