



# 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:**

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