



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

DESCRIPTION:

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

20-300 LV is a low viscosity self-leveling system. 20-3004HV is a high viscosity non-sag version.

FEATURES:

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

TYPICAL PROPERTIES:

Viscosity, cps, 25 °C	
20-3004RLVBK Low Viscosity Resin	9,000
20-3004CLVBK Low Viscosity Catalyst	5,000
20-3004RHVBK High Viscosity Resin	Gel
20-3004CHVWH High Viscosity Catalyst	Gel
Color	
Resin	Black
Catalyst	White
Mixed	Grey
Gel time, 100 grams, 25 °C	90 Minutes
Hardness, Shore D	78
Mix Ratio,	
By Weight (Resin:Catalyst)	100:45
By Volume (Resin:Catalyst)	2:1
Operating Temperature Range, °C, 20-3004LV	-60 to +140
Operating Temperature Range, °C, 20-3004HV	-50 to +140
Specific Gravity, 25 °C	
20-3004LV Resin and Catalyst	1.17
20-3004HV Resin and Catalyst	1.06
Tensile Strength, psi	7,600
Tensile Elongation, %	3.2
Dielectric Constant	3.61
Dissipation Factor	0.021
Glass Transition Temperature, °C	50

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.

INSTRUCTIONS FOR USE:

1. By weight mix 100 parts Resin to 45 parts Catalyst. By volume mix 100 parts Resin to 50 parts Catalyst. Avoid using paper cups & wooden stirrers. Use glass or metal containers and stirrers.
2. Pour and cure according to one of the following schedules:

A.	25°C	24 hours
B.	65°C	15-20 minutes

PREPARATION OF SURFACES:

Surfaces to be bonded must be clean and grease free. Adhesion can be substantially increased by abrading the surface with emery cloth, and sandpaper. A roughened porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the adhesives.

STORAGE, HANDLING, & SAFETY:

Expected shelf life is 12 months in original unopened containers when stored at 18 – 27°C.

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

IMPORTANT:

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