

TIM-802F

Epoxy Adhesive, Sealant, Encapsulation Compound

DESCRIPTIONS

TIM-802F epoxy system is a clear, medium viscosity epoxy system suitable for bonding, potting and encapsulating, coating, and sealing applications. It offers high bond strength, vibration & shock resistance. This high performance epoxy adhesive has excellent physical, thermal, and electrical insulation properties.

Applications: It can be used for bonding materials with widely different coefficient of thermal expansion including glass, metals, woods, and some plastics such as nylon, PVC, ABS etc. TIM-802F has a variable mix ratio depending on the desired properties.

INSTRUCTION FOR USE

1. Weigh each 100 grams of Resin (Part-A), add appropriate amount of TH-14
2. Mix until uniform. Scrape the sides and bottom of container repeatedly during mixing.
3. Apply to clean bonding surfaces and cure as recommended to achieve the desired properties.
4. Typical cured properties were determined using recommended cure schedule. Some difference in properties may occur with the alternate or other cure schedules.

Note: Refer to Safety Data Sheet (SDS) for additional health and safety information.

AVAILABILITY

2 Parts Kits: 1 Quart, 1 gallon & 5 gallon pail. 50cc and 400 cc dual cartridges

Typical Property	Value	Value	Value	Value
Mix Ratio (TIM-802F/TH-14)	100/50	100/100	100/150	100/200
Viscosity (Mixed) cps	10000-12000	9000-12000	10000-12000	10000-12000
Pot Life @ 25°C. (100 grams) Minutes	150	120	120	120
Cure Schedule	16 hr/25°C+ 2hr/100°C	16 hr/25°C+ 2hr/100°C	12 hr/25°C+ 2hr/65°C	12 hr/25°C+ 2hr/65°C
Alternate Cure	24 hr/25°C	24 hr/25°C	24 hr/25°C	24 hr/25°C
Shelf Life, 25C	12 months	12 months	12 months	12 months
Cured Properties				
Color	Clear/Amber	Clear/Amber	Clear/Amber	Clear/Amber
Specific Gravity	1.15	1.15	1.15	1.15
Hardness, Shore (D/A)	D-84	D-80	D-60	A60
Glass Transition Temperature.°C	86	85	85	146
Lap Shear Strength to Aluminum. PSI	3400	3200	1800	1200
Flexural Strength, PSI	14,700	12,300	10,200	7,500
Compression Strength, PSI	33,000	34,000	-	-
Water absorptions (24hrs immersion/25°C	0.18	0.33	0.56	0.9
Dielectric Strength (Volts/mil))	430	430	430	430
Dissipation Factor (1KHz)	0.02	0.018	0.017	0.015
Volume Resistivity (Ohm-cm)	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵

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