

**Self Adhering, Self Extinguishing, Condensation Cure Silicone**

Technical Bulletin # 3097

**Product Description**

**INSULCAST RTVS 187 LV** is a self adhering, self extinguishing condensation silicone compound suggested for coatings, encapsulants and sealants. Its curing mechanism is relatively temperature insensitive and requires a moist environment where Relative Humidity is at least 50% for proper curing.

**Properties Uncured**

	<b>Part A</b>	<b>Part B</b>	<b>Cat B-2</b>	
COLOR, VISUAL:	Yellow	Clear Amber	Clear	
VISCOSITY @ 25°C, cps:	6000	20	50	ASTM D 1094
SPECIFIC GRAVITY:	1.42	1.02	1.00	
MIX RATIO (by wt.):	100	2-3	3	
MIXED VISCOSITY, cps:		6000	6000	ASTM D 1094
SHELF LIFE @ 25°C, months:	12	6	6	
GEL TIME, mins:		40	200	
POT LIFE (100 gr.) @ 25°C, mins:		20	100	

**Properties Cured****PHYSICAL**

HARDNESS, DUROMETER (Shore A):	45-55	ASTM D 2240
SHRINKAGE, %	0.2 to 0.6	
COEFFICIENT OF THERMAL EXPANSION, (cm/cm/°C):	20.0 x 10 <sup>-5</sup>	
THERMAL CONDUCTIVITY, BTU-in/(ft <sup>2</sup> )(hr)(°F):	2.16	
THERMAL CONDUCTIVITY, W/m °K:	0.311	
SERVICE TEMPERATURE, °C:	-65 to +204	

**Electrical**

DIELECTRIC STRENGTH, volts/mil:	425	ASTM D 149
DIELECTRIC CONSTANT, 1 KHz:	4.1	ASTM D 150
DISSIPATION FACTOR, 1 KHz:	0.01	ASTM D 150
VOLUME RESISTIVITY, ohm-cm:	1 x 10 <sup>15</sup>	ASTM D 257

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Registered to ISO 9001:2000  
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**Instructions****Use**

1. Premix **RTVS 187 LV** in original container prior to use to reincorporate any filler that may have settled.
2. Weigh out required amount of Part A.
3. Measure 2-3 parts of Part B for each 100 parts of Part A.
4. Mix thoroughly, scraping the sides and bottom of the container.
5. Evacuate at 29 in. Hg for 3-4 minutes to ensure a void-free casting.
6. Pour into unit or mold.

**Cure Schedule**

Overnight at room temperature, 50% RH (12-16 hours)

**Storage Requirements**

This product may settle upon shipment or storage. The product should be re-mixed well prior to use. Store material in a cool dry place.

**Special Notes**

Certain materials may inhibit the cure of **RTVS 187 LV** when placed in contact with the mixed, uncured rubber. Materials such as amines and amine cured epoxies, sulfur containing materials and condensation (tin cured) silicones, are some which may cause inhibition. Even surfaces which have been in contact with such materials may cause it. If in doubt, a patch test should be done.

**Date** 02/2009**IMPORTANT:**

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**HEALTH CAUTION:**

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

**PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION. FOR CHEMICAL EMERGENCY, CALL CHEMTREC (DAY OR NIGHT) 800 424-9300.**