TECHNICAL BULLETIN #3133 – INSULCAST RTVS 3-95-2
RTV SILICONE POTTING COMPOUND

Revised: 04/2021

PRODUCT DESCRIPTION

INSULCAST RTVS 3-95-2 is a very highly thermally conductive, high temperature RTV silicone compound which meets the flammability requirements of UL94V-0.

PROPERTIES UNCURED

	PART A	PART B	
COLOUR, VISUAL	Red	White	-
VISCOSITY @ 25 ºC, cPs	35,000	35,000	ASTM D 2393
SPECIFIC GRAVITY	2.36	2.27	-
MIX RATIO (by weight or volume)	1:1		-
MIXED VISCOSITY, cPs	35,000		ASTM D 2393
GEL TIME, 25ºC, hrs.	2-4		-
POT LIFE @ 25ºC, hrs.	1.5		-
SHELF LIFE @ 25ºC, months	12		-

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PROPERTIES CURED

HARDNESS, DUROMETER (Shore A)	85	ASTM D 2240
TENSILE STRENGTH, psi / MPa	400 / 2.9	ASTM D 412
TENSILE ELONGATION, %	17	ASTM D 412
TEAR STRENGTH, N/mm	0.9	ASTM D 624
COEFFICIENT OF THERMAL EXPANSION, ºC	$15x10^{-5}$	-
THERMAL CONDUCTIVITY, W/mK	1.44	ASTM D 5470
SERVICE TEMPERATURE, ºC	-55 to 260	-

ELECTRICAL

DIELECTRIC STRENGTH, volts/mil / V/m	$425 / 1.67x10^{7}$	ASTM D 149
DIELECTRIC CONSTANT, 1 kHz	5.0	ASTM D 150
DISSIPATION FACTOR, 1 kHz	0.005	ASTM D 150
VOLUME RESISTIVITY, @ 125ºC ohm-cm	$1x10^{13}$	ASTM D 257
VOLUME RESISTIVITY, @ 25ºC, ohm-cm:	$1x10^{14}$	ASTM D 257

USE INSTRUCTIONS

1. Pre-mix the Part A & B in their original containers.
2. Measure 100 parts of Part B for each 100 parts of Part A.
3. Blend A & B together thoroughly.
4. To ensure void-free castings, evacuate at 29in.Hg (0.98 bar) for 3-4 minutes.
5. Pour into unit or mold.

CURE SCHEDULE

24 hours @25ºC,
or 2-4 hours at 65ºC,
or1 hour at 90ºC,
or 15 minutes at 125ºC.

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 3-95-2 when placed in contact with the mixed, uncured product. Materials such as amines and amine-cured epoxies, sulfur containing materials and condensation (tin-cured) silicones, are some that may cause inhibition. Even surfaces that have been in contact with such materials may inhibit curing. If in doubt, a patch test should be done.

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HEALTH CAUTION:

Refer to the SDS prior to use. The use of NIOSH or CE approved respiratory protection may be required. Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. 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.

ITW Philadelphia Resins
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