ENCAPSULANT

3110 RTV Encapsulant; a white, 'low viscosity' silicone rubber base with good deep-section curing characteristics.

3112 RTV Encapsulant; a white, medium viscosity silicone rubber base that cures readily in deep sections to a high durometer, high strength rubber.

3120 RTV Encapsulant; 'a red,' medium viscosity silicone rubber base that cures readily in deep sections to a high durometer, high strength rubber.

CATALYST

RTV catalyst F (fast rate of cure); is a light tan, paste consistency catalyst designed to cure RTV 3110, 3112 and 3120 encapsulant bases in a range from *15 minutes* to 4 hours, depending on catalyst concentration.

RTV catalyst S (standard rate of cure); is a light blue, paste consistency catalyst designed to cure RTV 3110, 3112, and 3120 encapsulant bases in approximately 6 hours.

RTV catalyst H (for heat accelerated cure); is a light yellow, paste consistency catalyst designed to cure RTV 3110, 3112, and 3120 encapsulant bases either at room temperature or by heating.

GENERAL

Each of the three silicone rubber bases can be cured with any of the three catalysts, giving nine different combinations from which to select.

CATALYST SELECTION

RTV catalysts S, F and H are all paste catalysts consisting of an organometallic compound and inert fillers in a silicone polymer.

RTV catalyst S contains dibutyl tin dilaurate as its active ingredient. This is the most widely used catalyst because it permits at least 30 minutes working time. The most frequently used catalyst concentration is 10% by weight of the RTV encapsulant base. Varying the catalyst concentration will change the curing rate as indicated in the table following.

RTV catalyst F contains Stannous Octoate as its active ingredient. Use this catalyst for high speed production.

It is ideally suited for use with automated mixing-dispensing equipment, where the mixing is done in a mixing head immediately prior to being dispensed. Working time with 10% of this catalyst is about 5 minutes. Catalyst F will lose its activity rapidly when exposed to air. Keep catalyst containers tightly closed when not in use.

RTV catalyst H is used where long working time is desired but where fast curing is necessary. With this catalyst thin sections (1/8 inch) of RTV encapsulants can be cured in as little as 5 minutes at 150 C.

These catalysts are formulated to cure in dry atmospheres making it unnecessary to cure the RTV encapsulants in a controlled humidity area.

AVAILABILITY

The encapsulant bases are available in 1, 10, 50 and 450 pound containers. Catalysts are not supplied with encapsulants. They must be ordered separately, RTV catalysts S and H are supplied in 2-ounce tubes, 1, 10, and 45 pound containers. RTV catalyst F is supplied in 2- and 5-ounce tubes, 10 and 45 pound containers.

CURING RATE VS. CATALYST CONCENTRATION

3110 RTV ENCAPSULANT

220 111 21101200211	1.71.4 m1	D-1 710-	Q m:
and Catalant P	Working Time 2 minutes	Pot Life 8 minutes	Cure Time
20% Catalyst F			
10% Catalyst F	5 minutes	18 minutes	1½ hours
20% Catalyst S	15 minutes	1½ hours	4½ hours
10% Catalyst S	30 minutes	· 2 hours	6 hours
5% Catalyst S	45 minutes	3 hours	8 hours
10% Catalyst H	30 minutes	4½ hours	8 hours
3112 RTV ENCAPSULANT			
	Working Time	Pot Life	Cure Time
20% Catalyst F	2 minutes	15 minutes	1 hour
10% Catalyst F	5 minutes	1 hour	4 hours
20% Catalyst S	15 minutes	1 hours	4 hours
10% Catalyst S	30 minutes	2 hours	51 hours
5% Catalyst S	45 minutes	3 hours	8 hours
10% Catalyst H		-	
10% datalyst n	30 minutes	42 hours	8 hours
3120 RTV ENCAPSULANT			
	Working Time	Pot Life	Cure Time
20% Catalyst F	2 minutes	6 minutes	15 minutes
10% Catalyst F	5 minutes	20 minutes	30 minutes
20% Catalyst S	15 minutes	2 hours	53 hours
10% Catalyst S	30 minutes	2 hours	7 hours
		*	
5% Catalyst S	45 minutes	42 hours	8 hours
10% Catalyst H	30 minutes	42 hours	8 hours

TMC PART NO. ENCAPSULANT CATALYST

6 UULY 67

ASS T. NO

STANDARD DRAWING

REF: GL10006-PRIMER S10149 - SPECIFICATION

STOCK SIZE		TMC(Canada)LIMITED ONTARIO RTV ENCAPSULANT			
MATERIAL	WEIGHT PER PC				
TYPE & TEMPER		P.A.M. RD		W	
	300	DRAWN	ELEC DES APP	MECH DES APP	
HEAT TREAT SPEC		CHECKED	FINALAPPROVAL		
FINISH & SP	EC NO		GL10	0005 Ø	

DESCRIPTION

GL10005

TOLERANCES

SCALE

DEC DIM:

FRAC DIM:

ANGULAR DIM:

TOLERANCES

SCALE

DRILL, PUNCH, COMMERCIAL STOCK

SIZES AND MANUFACTURERS

TOLERANCES ARE NOT INCLUDED