

# Dow Corning® 90-006-2 RF Aerospace Sealant

## FEATURES

- Longer Working Time
- Two part room temperature cure

Two part, high viscosity, high performance silicone elastomer

## APPLICATIONS

- Indicate applications based upon the physical properties of the product

## TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

CTM <sup>1</sup>	ASTM <sup>1</sup>	Property	Unit	Result
		As Supplied		
0050	D1084	Color – base/curing agent		Red/Green
		Viscosity at 25C (base)	mPa.s	1,200,000
		Mixing ratio by weight (base/curing agent)		10/1
		<b>Catalyzed, mixed 10:1 base/curing agent by weight</b>		
0095		Working time at 25C	Hours	2
0364		Tack-free time	Hours	2
		Extrusion Rate, tested 2 hours after mixing	grams/minute	200
		<b>Physical properties, cured at 25C and 50% relative humidity</b>		
0099	D2240	Durometer hardness Shore A	48 Hour	48
0137A	D412	Tensile Strength	psi	600
		Elongation at break	%	130
		Peel strength, cohesive	ppi	5.00

<sup>1</sup>CTM: Corporate Test Method, copies of CTMs are available on request.

ASTM: American Society for Testing and Materials

## DESCRIPTION

### Surface preparation

*Dow Corning® 90-006-2 RF* Aerospace Sealant adheres well to primed surfaces, typical materials include glass, cured silicone rubber, cork, phenolic, polyester, epoxy, silicone resin laminates and most metals including stainless steel, titanium and aluminum. It may not adhere well to polyethylene or certain plastics and organic materials (including rubber), which bleed or exude plasticizers.

Stronger and more uniform bonds are obtained by preparing metal and plastic surfaces with *Dow Corning® PR-1200 Primer*.

For best results:

1. Clean the surface with a chlorinated solvent (see Handling Precautions) and a slightly abrasive pad or a coarse lint-free cloth.
2. Rinse cleaned surface with acetone or methyl ethyl ketone.
3. Apply a thin coat of primer by dipping, brushing or spraying.
4. Allow the primer to dry for at least 1 hour, according to relative humidity.
5. Silicone rubber surfaces should not normally be primed, but only roughened slightly with abrasive paper and rinsed with acetone. In thin sections, a primer may be needed.

## Mixing

*Dow Corning*<sup>®</sup> 90-006-2 RF Catalyst is added in a ratio of 1 part to 10 parts *Dow Corning*<sup>®</sup> 90-006-2 RF Base, by weight. It may be dispersed by 2 to 5 minutes of hand mixing, or by approximately 40 cycles of a mechanical mixer. The base and catalyst are supplied in contrasting colors: when uniformity of color is achieved, components are uniformly blended.

## How to apply

After being catalyzed *Dow Corning* 90-006-2 RF Aerospace Sealant may be applied with a spatula. It can also be loaded into a cartridge and applied from a pressure gun. Uncured excess may be removed with xylene, toluene or similar aromatic solvents.

## Working and cure time

*Dow Corning* 90-006-2 RF Aerospace Sealant is useable for a minimum of 2 hours after catalyst addition, unless otherwise specified.

## HANDLING

### PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEB SITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

## USABLE LIFE AND STORAGE

When stored at or below 32°C in the original unopened containers, *Dow Corning* 90-006-2 RF Aerospace Sealant has a usable life of 12 months from the date of production.

## PACKAGING INFORMATION

*Dow Corning* 90-006-2 RF Aerospace Sealant is available with its catalyst in 453 gram, 5 kg, 27.9 kg, and 199.5 kg kits.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our Web site, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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