

Dow Corning® 90-006-1/2 RF Aerospace Sealant

FEATURES

- Shorter Working Time
- Two part room temperature cure

Two part, high viscosity, high performance silicone elastomer

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 ¹	ASTM ¹	Property	Unit	Result
As Supplied				
		Color – base/curing agent		Red/Green
		Mixing ratio by weight (base/curing agent)		10/1
Catalyzed, mixed 10:1 base/curing agent by weight				
		Working time at 25°C	minutes	30
0095		Tack-free time	hour	1
0364		Extrusion Rate, 30 minutes after mix	grams/minute	280
Physical properties, cured at 25°C and 50% relative humidity				
0099	D2240	Durometer hardness Shore A	7 day	50
0137A	D412	Tensile Strength	psi	580
		Elongation at break	%	140
		Peel strength, cohesive	ppi	4.00

¹CTM: Corporate Test Method, copies of CTMs are available on request.
ASTM: American Society for Testing and Materials.

HOW TO USE

Surface preparation

Dow Corning® 90-006-1/2 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 plasticisers.

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[®] 90-006-1/2 RF Catalyst is added in a ratio of 1 part to 10 parts *Dow Corning*[®] 90-006-1/2 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* 90-006-1/2 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 90-006-1/2 RF Aerospace Sealant is useable for a minimum of 1/2 hour 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* 90-006-1/2 RF Aerospace Sealant has a usable life of 12 months from the date of production.

PACKAGING INFORMATION

Dow Corning 90-006-1/2 RF Aerospace Sealant is available with its catalyst in a 453 gram kit.

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 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.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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