

Technical data sheet



Product: 90-006-2

Manufacturer: DOWSIL

Product group: KLEBSTOFF

Article group: 2-K SILIKON

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DOWSIL™ 90-006-2 RF AEROSPACE SEALANT

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DOWSIL™ 90-006-2 RF Aerospace Sealant

FEATURES

- Longer 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.

CTM ¹	ASTM ²	Property	Unit	Result
As Supplied				
		Color – base/curing agent		Red/Green
0050	D1084	Viscosity at 25C (base)	mPa.s	1,200,000
		Mixing ratio by weight (base/curing agent)		10/1
Catalyzed, mixed 10:1 base/curing agent by weight				
		Working time at 25°C	hours	2
0095		Tack-free time	hours	2
0364		Extrusion rate, tested 2 hours after mixing	grams/minute	200
Physical properties, cured at 25°C and 50% relative humidity				
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

¹CTM: Corporate Test Method, copies of CTMs are available on request.

ASTM: American Society for Testing and Materials.

DESCRIPTION

Surface Preparation

DOWSIL™ 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 DOWSIL™ PR-1200 RTV Prime Coat.

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

DOWSIL™ 90-006-2 RF Catalyst is added in a ratio of 1 part to 10 parts DOWSIL™ 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 DOWSIL 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

DOWSIL 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 SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

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

PACKAGING INFORMATION

DOWSIL 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 has an extensive Product Stewardship organization and a team of product safety and

regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

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