

# Dow Corning® 7094 Flowable Sealant

## FEATURES

- One component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Alkoxy cure system
- Flowable and self leveling
- Easy to apply
- Excellent unprimed adhesion to many substrates
- Stable and flexible from -50°C to +180°C

## BENEFITS

- Non corrosive to metals
- Low odor
- Unprimed adhesion to mixed substrates

## COMPOSITION

- Silicone Adhesive/Sealant

One component, flowable neutral cure silicone adhesive/sealant

## APPLICATIONS

- Sealing and bonding applications where low viscosity and self leveling properties in combination with non-corrosive cure is required.
- Designed for applications which demand a strong but flexible bond such as when bonding materials with differing thermal expansion rates e.g., glass to metal or glass to plastic.
- Low modulus formulation for high movement capability
- Sealing in gaps where an elastic grouting is required

## 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.

Test (CTM)*	Property	Unit	Result
<b>As supplied</b>			
	Appearance		Black, viscous liquid
0097B*	Density	g/cm <sup>3</sup>	1.30
0050	Viscosity	mPa·s	28,000
0098	Skin-over-time (23°C, 50% R.H.)	Min	25
0095A	Tack-free-time (23°C, 50% R.H.)	Min	50
<b>Mechanical Properties, cured 7 days in air at 23°C and 50%R.H.</b>			
0137A	Tensile Strength	MPa	1.2
0137A	Elongation at Break	%	400
0137A	Modulus at 100%	MPa	0.36
0099	Hardness, Shore A		19

\*CTM: Corporate Test Method, copies of CTM's are available on request.

## DESCRIPTION

Dow Corning® 7094 is a black, low modulus silicone adhesive/sealant designed for applications where a flowable product and non corrosive cure with durable adhesion to a variety of substrates is required. The flowable properties allow spray-applications by airless pumps.

## HOW TO USE

### Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl-ethyl ketone.

Unprimed adhesion may be obtained by on many substrates such as glass, metals (e.g. steel, aluminum) and most common engineering plastics (e.g. polyamide, polycarbonate). Adhesion may be less successful on some low energy plastics such as polyethylene, polypropylene and PTFE.

### How to apply

Dow Corning 7094 is ready to use. Apply a suitable amount of Dow Corning 7094 to one of the prepared surfaces, and then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will “skin over” in about 25 minutes at room temperature and 50% rel. humidity. Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula. The adhesive/sealant will be tack-free in about 50 minutes.

**Cure Time**

After skin formation, cure continues inward from the surface. In 24 hours at room temperature and 50 % relative humidity, *Dow Corning 7094* will cure to a depth of about 2 mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is very much depending on the humidity level. It is extended at lower humidity levels and accelerated at higher levels, respectively (see table below).

<b>Condition</b>	<b>Rel. Cure Speed</b>
23°C, 50% R.H.	100%
15°C, 40% R.H.	70%
30°C, 60% R.H.	135%
35°C, 70% R.H.	168%

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

**HANDLING**

**PRECAUTIONS**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. 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 FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

**USABLE LIFE AND STORAGE**

When stored below 32°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

**PACKAGING INFORMATION**

*Dow Corning 7094* is available in various standard industrial containers. Please contact your local Dow Corning representative for further details.

**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.

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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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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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