



## DOWSIL™ 9-1374 Silicone Sealant

High performance neutral cure silicone sealant

### Features & Benefits

- One-part adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Alkoxy neutral cure system
- Low odor
- Adheres to most common substrates
- Easy to apply
- Cures to tough, flexible rubber
- Stable and flexible from -55°C to 180°C (-67°F to 356°F)
- Flexible yet strong bond

### Composition

- One-part, moisture curing, 100 percent silicone, non-slump paste

### Applications

- For applications which demand a strong but flexible bond such as when bonding materials with different thermal expansion rates such as glass to metal, or glass to plastic or metal to plastic
- Unprimed adhesion to commonly used materials such as wood, steel, aluminum, paints, as well as certain plastics
- Formed-In-Place Gasket (FIPG)

### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

CTM <sup>1</sup>	ASTM <sup>2</sup>	Property	Unit	Result
<b>As Supplied</b>				
		Appearance		Non-slump paste
		Colors		Clear
0364	D2452	Viscosity Extrusion Rate <sup>3</sup>	g/minute	340
0098		Skin-over Time	minutes	5

1. CTM's: (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTM's are available upon request.
2. ASTM: American Society for Testing and Materials.
3. Extrusion rate measured using 1/8" (3.18 mm) diameter nozzle at 90 psi (0.62 MPa).

## Typical Properties (Cont.)

CTM	ASTM	Property	Unit	Result
0095		Tack-free Time <sup>4</sup>	minutes	40
<b>Mechanical Properties Cured 7 Days in Air at 23°C (73°F) and 50% Relative Humidity</b>				
	C661	Durometer – Shore A	points	21
0137A	D412	Tensile Strength	psi	237
0137A	D412	Elongation	percent	401
0137A	D412	Modulus at 100% Elongation	psi	64
0137A	D412	Elongation at Break	percent	300–550

4. Tack-free time is the time required for the product to develop a non-tacky surface based on adhesion to a polyethylene film.

### Description

DOWSIL™ 9-1374 Silicone Sealant is a 100 percent silicone, neutral-cure RTV sealant for good adhesion to a wide range of substrates.

### How to Use

#### Substrate Preparation

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

For maximum adhesion, the use of DOWSIL™ P5200 Adhesion Promoter is recommended.

#### How to Apply

Apply a bead of DOWSIL™ 9-1374 Silicone Sealant (see Handling Precautions) to one of the prepared surfaces, then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will “skin-over” in 5 to 10 minutes at room temperature and 50% relative humidity. Any tooling should be completed before the skin forms. The surface is easily tooled with a spatula.

### 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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

### Usable Life and Storage

Product should be stored at or below 49°C (120°F) in original, unopened containers. The most up-to-date shelf life information can be found on the Dow website in the Product Detail page under Sales Specification.

### 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, [dow.com](http://dow.com) or consult your local Dow representative.

## **Disposal Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## **Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## **Customer Notice**

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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