

# DOW CORNING® 752

## Adhesive/Sealant

### FEATURES

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Non-sag, paste consistency
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion on many substrates
- Stable and flexible from -50°C (-58°F) to 180°C (356°F)
- Available in white, black or clear

### General purpose silicone adhesive/sealant

### APPLICATIONS

- General industrial sealing and bonding applications requiring a non-sag product.

### TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

CTM*	ASTM*	Property	Unit	Value
<b>As supplied</b>				
0176		Appearance		Non-slump paste
		Color		White, black or clear
0364		Extrusion rate <sup>1</sup>	g/minute	400
0098		Skin-over time	minutes	10-15
0095		Tack-free time	minutes	20-25
0010V		Non-volatile content	%	97
<b>Physical properties, after curing 7 days at 25°C and 50% relative humidity</b>				
0097B	D1475	Specific gravity		1.03
0099		Durometer hardness, Shore A		24
0137A	D412	Tensile strength	MPa	2.4
0137A	D412	Elongation at break	%	490

1. Extrusion rate: 3.2mm orifice at 0.62MPa.

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

ASTM: American Society for Testing and Materials.

### 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 on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene,

polypropylene and related materials.

However, for maximum adhesion, the use of DOW CORNING® 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOW CORNING 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

#### How to apply

Apply DOW CORNING 752 Adhesive/Sealant 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 about 10-15 minutes at room temperature and 50% relative 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 25 minutes.

### **Cure time**

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOW CORNING 752 Adhesive/Sealant will cure to a depth of about 3mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at lower humidity levels.

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

### **Compatibility**

DOW CORNING 752 Adhesive/Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

### **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 at or below 32°C (89.6°F) in the original unopened containers this product has a usable life of 27 months from the date of production.

As DOW CORNING 752 Adhesive/Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

### **PACKAGING**

This product is available in a variety of container sizes. Contact your local Dow Corning sales representative for information about container sizes available in your area.

### **LIMITATIONS**

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

### **HEALTH, ENVIRONMENTAL AND REGULATORY INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

### **LIMITED WARRANTY - PLEASE READ CAREFULLY**

The information contained herein is offered in good faith based on Dow Corning's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's tests to ensure that Dow Corning's

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To consult Dow Corning web site, type: [www.dowcorning.com](http://www.dowcorning.com)

## DOW CORNING ASIA

### Australia & New Zealand

Dow Corning Australia Pty Ltd.

Tel.: +61 1300 360 732

Fax: +61 2984 741 00

### China

Dow Corning China Ltd.

Tel.: +86 21 6249 2316

Fax: +86 21 6249 2317

### China

Dow Corning Asia (H.K.)

Tel.: +852 2835 0350

Fax: +852 2836 6650

### India, Indonesia, Singapore, Malaysia & Philippines

Dow Corning Singapore Pte Ltd.

Tel.: +65 253 6611

Fax: +65 253 6070

### Japan

Dow Corning Asia Ltd.

Tel.: +81 3 3287 1151

Fax: +81 3 3287 1059 & 1081

### Japan

Dow Corning Toray Silicone Co Ltd.

Tel.: +81 3 3287 1010

Fax: +81 3 3287 1201

### Korea

Dow Corning Korea Ltd.

Tel.: +82 2 551 7600

Fax: +82 2 551 6800

### Taiwan

Dow Corning Taiwan Inc.

Tel.: +886 2 2713 6936

Fax: +886 2 2717 2209

### Thailand

Dow Corning Thailand Ltd.

Tel.: +66 2 326 0773

Fax: +66 2 326 0767

## DOW CORNING EUROPE

### Germany, Austria, Switzerland & Eastern Europe

Dow Corning GmbH

GERMANY

Tel.: +49 (0)611 - 23 71

Fax: +49 (0)611 - 237 610

### France & North Africa

Dow Corning France S.A.

Tel.: +33 (0)4 72 84 13 60

Fax: +33 (0)4 72 84 13 79

### Italy & Eastern Mediterranean Countries

Dow Corning S.p.A.

ITALY

Tel.: +39 039 - 60 711

Fax: +39 039 - 68 996 60

### Poland

Dow Corning Polska Sp. zo.o.

Tel.: +48 (0)22 645 14 46

Fax: +48 (0)22 645 14 40

### United Kingdom, Eire, Nordic Countries, Benelux, South Africa & Middle East

Dow Corning

UNITED KINGDOM

Tel.: +44 (0)1 676 52 80 00

Fax: +44 (0)1 676 52 80 01

### Spain & Portugal

Dow Corning Ibérica S.A.

SPAIN

Tel.: +34 93 36 36 900

Fax: +34 93 36 36 901

## DOW CORNING NORTH AMERICA

Dow Corning Corporation

Tel.: +1 517 496 6000

Fax: +1 517 496 8026

## DOW CORNING SOUTH AMERICA

Dow Corning do Brasil Ltda.

Tel.: +55 11 3759 4300

Fax: +55 11 3758 5727