

# Dow Corning® 732 Multi-Purpose Sealant

## FEATURES & BENEFITS

- 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 to many substrates
- Stable and flexible from -60°C to +180°C (-76°F to +356°F), with short peaks up to +205°C (401°F)
- Black version: stable and flexible from -60°C to +205°C (-76°F to +401°F), with short peaks up to +230°C (446°F)
- Excellent dielectric properties
- Complies with MIL-A-46106
- Complies with FDA 177.2600
- Available in white, black, clear and aluminum

General purpose silicone adhesive/sealant (specified)

## APPLICATIONS

- General industrial sealing and bonding applications
- Complies with MIL-A-46106 and FDA 177.2600

## 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 <sup>1</sup>	ASTM <sup>2</sup>	Properties	Unit	Result
<b>As Supplied</b>				
0176		Appearance		Non-slump paste
		Color(s)		White, black, clear or aluminum
0364		Extrusion rate <sup>3</sup>	g/minute	350
0098		Skin-over time	Minutes	7
0095		Tack-free time	Minutes	20
<b>Mechanical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity</b>				
0097B	D1475	Specific gravity		1.04
0099	D2240	Durometer hardness, Shore A		25
0137A	D412	Tensile strength	MPa	2.3
0137A	D412	Elongation at break	%	540
0420		Volume coefficient of thermal expansion	1/K	1.12x10 <sup>3</sup>
<b>Electrical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity</b>				
0114	D149	Dielectric strength	kV/mm	21.6
0112	D150	Dielectric constant at 100Hz/100kHz		2.8
0112	D150	Dissipation factor at 100Hz/100kHz		0.0015
0112	D150	Volume resistivity	Ohm.cm	1.5x10 <sup>15</sup>

<sup>1</sup>CTM: Corporate Test Method, copies of CTMs are available on request.

<sup>2</sup>ASTM: American Society for Testing and Materials.

<sup>3</sup>Extrusion rate: 3.2 mm orifice at 0.62 MPa.

## 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*<sup>®</sup> 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*<sup>®</sup> 732 Multi-Purpose 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". 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 less than 45 minutes.

### CURE TIME

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) *Dow Corning* 732 Multi-Purpose Sealant will cure to a depth of about 3 mm. 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* 732 Multi-Purpose 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 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 WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

### USABLE LIFE AND STORAGE

Product should be stored at or below 32°C (90°F) in original, unopened containers.

The most up-to-date shelf life information can be found on the XIAMETER<sup>®</sup> website in the Product Detail page under Sales Specification.

As *Dow Corning* 732 Multi-Purpose 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.

### 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 website, [dowcorning.com](http://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 customers' 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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