

Silicone Sealants

**Dow Corning® 737 Neutral Cure Sealant**

**FEATURES**

- Primerless adhesion to many materials
- Oxime cure; cures at room temperature upon exposure to moisture in the air
- Adhesion to many plastics, metals, painted surfaces, glass and rubbers
- Does not react with or corrode most metals or plastics (see Limitations)
- Fast cure – 3 to 6 minutes skin-over time; 14 minute tack-free time
- Cures to a handling condition in 24 hours on exposure to moisture in the air
- Will not slump, sag or run off surfaces
- Broad temperature range performance; cured material stays flexible from -85 to 350°F (-65 to 177°C)
- 100 percent silicone rubber

**COMPOSITION**

- One-part silicone rubber supplied as nonslumping paste

**Multipurpose, one-part sealant for application in a wide range of industrial assembly and installation operations**

**USES**

*Dow Corning® 737 Neutral Cure Sealant* is designed for diverse OEM and assembly applications. General uses include bonding and sealing, formed-in-place gasketing and maintenance applications. Specific uses include:

- Substitute for mechanical fasteners on large and small appliances
- Sealing refrigerator and freezer liners (however, not FDA-approved for food-contact applications)
- Adhering plastic moldings to plastic substrates for trim applications, decals
- Waterproofing electrical components
- Sealing coaxial connectors
- Protecting instrumentation assemblies

**TYPICAL PROPERTIES**

These values are not intended for use in preparing specifications.

Method	Test	Unit	Result
<b>As Supplied</b>			
	Color		Translucent, white, black
CTM <sup>1</sup> 0062	Flow, Sag or Slump	inches	Nil
CTM 0097	Specific Gravity		1.04
CTM 0364	Extrusion Rate (1/8" orifice, 90 psi)	grams/minute	395
<b>Cure Characteristics – Exposed to Air at 77°F (25°C) and 50 percent RH</b>			
CTM 0098	Skin-Over Time	minutes	3-6
CTM 0095	Tack-Free Time, at 77°F (25°C) and 50 percent RH	minutes	14
<b>Physical Properties – As Cured 7 days at 77°F (25°C) and 50 percent RH</b>			
CTM 0099	Durometer Hardness, Shore A	points	33
CTM 0137A	Tensile Strength	psi	>175
CTM 0137A	Elongation	percent	>300
CTM 0293	Typical Adhesion, Peel Strength <sup>2</sup>	ppi	20

<sup>1</sup>CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances.

<sup>2</sup>Laboratory tests and market tests have demonstrated adhesion to many substrates, including acrylonitrile butadiene styrene, anodized aluminum, brass, carbon steel, copper, galvanized steel, glass, neoprene, phenolic G-10, silicone rubber, stainless steel and wrought iron.

**Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Service in Midland, MI. Call (517) 496-6000.**

## DESCRIPTION

*Dow Corning* 737 Neutral Cure Sealant adheres without priming to a variety of materials and cures to a durable, flexible silicone rubber upon exposure to water vapor in the air.

## LIMITATIONS

*Dow Corning* 737 Neutral Cure Sealant is not recommended:

- For continuous water immersion
- In applications where excessive abrasion and physical abuse are encountered
- On materials that bleed oils, plasticizers or solvents; materials such as impregnated wood, oil-based caulks, and certain green or partially vulcanized rubber gaskets and tapes
- In totally confined spaces where the sealant is not exposed to atmospheric moisture
- On surfaces that will be painted; the paint film will not stretch with the extension of the sealant and may crack and peel

In confined cure conditions, *Dow Corning* 737 Neutral Cure Sealant may:

- Discolor brass, copper or other sensitive metals
- Stress craze polycarbonate

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

## LISTINGS/SPECIFICATIONS

- UL QMFZ2 94HB

## HOW TO USE

### Surface Preparation

All surfaces must be clean and dry. Metal and glass surfaces should be cleaned by wiping with a solvent such as *Dow Corning*<sup>®</sup> OS Fluids and an oil-free rag.<sup>1</sup>

## Priming

Priming is not required for most glass, aluminum, steel and other common substrates. A test placement prior to general use is always recommended. Consult Dow Corning Corporation for information regarding application on other substrates.

## Applying the Sealant

*Dow Corning* 737 Neutral Cure Sealant should be applied in a continuous operation. If needed, tool the sealant with light pressure to spread it against the substrate. Tool immediately after sealant application and before a skin forms.

Uncured sealant may be cleaned from tools and nonporous surfaces using *Dow Corning* OS Fluids or commercial solvents.<sup>1</sup> On porous surfaces, allow excess sealant to cure and then remove by abrasion or other mechanical means.

## STORAGE AND SHELF LIFE

When stored at or below 90°F (32°C), *Dow Corning* 737 Neutral Cure Sealant has a shelf life of 24 months from date of manufacture. Refer to product packaging for "Use By" date. Keep container tightly closed to avoid contact with moisture.

## SHIPPING LIMITATIONS

None.

## PACKAGING

*Dow Corning* 737 Neutral Cure Sealant is supplied in 3-fl oz (90-mL) tubes, 10.1-fl oz (300-mL) plastic cartridges and 4.5-gal (17-L) pails.

## SAFE HANDLING INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. 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 FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY WRITING TO DOW CORNING CUSTOMER SERVICES, OR BY CALLING (517) 496-6000.

## 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 customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

<sup>1</sup>Follow solvent manufacturer's recommended safe handling procedures and applicable federal, state and local regulations.