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Dow Corning®

735

Oil Resistant Sealant

Dow Corning® 735 Oil Resistant Sealant is a one-component, ready-to-use, nonslumping silicone material that reacts with moisture in the air to cure to a tough, rubbery solid.

Features

- Resistance to common oils and coolants
- Low volatility (0.3 percent)
- Neutral cure mechanism; no corrosion on common substrates
- Easy handling with no mixing, heating or solvents; easy repair by cutting away old material and replacing with fresh material
- Service temperature range from -80 to 400°F (-62 to 204°C) for extended periods, and up to 450°F (230°C) for shorter periods

Oil Immersion Resistance¹

IRM 902 Oil, 1 week at 302°F (150°C)	
Tensile, psi	197
Elongation, percent	250
Volume Swell, percent	9.0
Glycol and Water, 50/50 mixture, 1 week	
Tensile, psi	105
Elongation, percent	111
Volume Swell, percent	Nil

¹As cured. These values are not intended for use in preparing specifications.

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.

Applications

Dow Corning 735 Oil Resistant Sealant can be used for sealing general industrial equipment where resistance to oil, coolants and other lubricants is required (oil circulation systems, machine housings, conveyor guides and guards, oil containment troughs or barriers, piping). Dow Corning 735 Oil Resistant Sealant can be used as formed-in-place gaskets for gear boxes, engines, pumps and flanges.

To Learn More ...

For more information about *Dow Corning 735 Oil Resistant Sealant*, please contact your Dow Corning representative or call (517) 496-6000.



How To Use

Surfaces to be bonded or sealed must be free of dirt, oil and other contaminants. Apply *Dow Corning* 735 Oil Resistant Sealant to the prepared surface in a continuous, uniform thickness. If this adhesive/sealant is to be used between two surfaces, apply to one surface and allow it to establish uniform contact before putting the other surface in place. When placing the second surface, use enough pressure to displace the adhesive/sealant.

Let the unit stand undisturbed at room temperature until it cures sufficiently.

This sealant will cure to a depth of 1/8 inch in 24 hours at 77°F (25°C) and 50 percent relative humidity.

Limitations

Do not use for applications where product will be in constant contact with gasoline, synthetic fuels or solvents. Do not use in totally confined applications; atmospheric moisture is required for cure. Most paints do not adhere. Under certain conditions, cure by-products may cause stress cracking of polycarbonate. Test before using. May discolor brass and copper.

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

Storage/Shelf Life

When stored at or below 90°F (32°C), *Dow Corning* 735 Oil Resistant Sealant has a useable life of 12 months from the date of manufacture. For best results, use completely within 6 months of opening.

Since this material cures by reaction with moisture in the air, keep the container tightly sealed when not in use. A plug of cured material may form in the tip of the tube during storage, but is easily removed and does not affect the remaining contents.

Available Packaging

Dow Corning 735 Oil Resistant Sealant is supplied in 3-fl oz (90-mL) tubes, 10.1-fl oz (305-mL) cartridges, and 4.5-gal (17-L) pails.

Typical Properties

These values are not intended for use in preparing specifications.

As Supplied¹

Consistency	Nonslumping paste
Extrusion Rate, 1/8-inch nozzle at 90 psi, grams per minute	300-450
Skin-Over Time, minutes	9
Tack-Free Time, minutes	15
Cure Time, 1/8 inch, hours	24
Volatility, percent	0.3

As Cured – Physical²

Color	Black
ASTM D 2240 Durometer, Shore A	42
ASTM D 412 Tensile, psi	280
ASTM D 412 Elongation, percent	300
ASTM D 903 Adhesion, 180° Peel	
Steel, pli	16
Aluminum, pli	25

¹At 77°F (25°C) and 50% RH.

²After 7 days at 77°F (25°C) and 50% RH.

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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 SERVICE, OR BY CALLING (517) 496-6000.

LIMITED WARRANTY – PLEASE READ CAREFULLY

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Printed in USA

AGP4078

Form No. 10-825-98

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