



Technical Data Sheet

DOWSIL™ 832 Multi-Surface Adhesive Sealant

100% silicone, engineered for assembly and maintenance applications

Features & Benefits

- 100 percent silicone RTV rubber
- Superior unprimed adhesion to a wide variety of surfaces, including glass, metal, masonry, concrete, most rubber and plastics, including ABS, PVC and polycarbonate
- Low odor
- Neutral (alcohol) cure
- Will not corrode metal or other corrosion-sensitive materials
- Use temperatures: -67 to 300°F (-55 to 149°C); intermittent to 350°F (177°C)
- Forms flexible, long-lasting seal
- Available in off-white, black and gray

Applications

- DOWSIL™ 832 Multi-Surface Adhesive Sealant is used for bonding, sealing and assembly where superior unprimed adhesion or noncorrosive sealant is required. Typical applications include sealing and repairing roof penetrations, gutters, concrete floor seams, marine equipment and windows, pipes, threaded connections, and assembling original equipment components.

Typical Properties

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

Test ¹	Property	Unit	Result
As Supplied²			
	Consistency		Nonslumping paste
	Corrosion properties		Noncorrosive
CTM 0364	Extrusion rate, 1/8 - inch nozzle at 90 psi	grams/minute	133
CTM 1377	Viscosity (low shear - 1/s)	Pa-sec	496
CTM 1377	Viscosity (high shear - 10/s)	Pa-sec	172
CTM 0098	Skin-over time	minutes	20
CTM 0095	Tack-free time	minutes	50–90
CTM 0022	Specific gravity at 77°F (25°C)		1.33

1. CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.
2. All cure conditions are 77°F (25°C) and 50 percent RH.

Typical Properties (Cont.)

Test	Property	Unit	Result
As Cured³			
	Color		Off-white, black, gray
CTM 0293	Peel Strength	ppi	
	ABS		> 35
	Acrylic, primed		> 30
	Polycarbonate, primed		> 35
	Polycarbonate, unprimed		> 35
	Phenolic G-10		> 30
	Polystyrene		> 20
	PVC		> 30
	Aluminum, anodized		> 30
	Aluminum, milled		> 35
	Brass		> 30
	Steel, carbon		> 35
	Steel, galvanized		> 30
	Steel, milled		> 25
	Steel, stainless		> 30
	Wrought iron		> 30
	Copper		> 35
	Glass		> 30
	Neoprene		> 25
	Silicone rubber		> 30
CTM 0099	Durometer hardness, Shore A		35
CTM 0137A	Tensile strength	psi	350
CTM 0137A	Elongation	percent	420

3. After 7 day cure at 77°F (25°C) and 50 percent RH.

Description

DOWSIL™ 832 Multi-Surface Adhesive Sealant is a one-component, ready-to-use, noncorrosive silicone material that seals, bonds and protects. Engineered for use as an all-purpose assembly and maintenance sealant, DOWSIL™ 832 Multi-Surface Adhesive Sealant bonds to many surfaces and offers superior adhesion to glass, metal, masonry, concrete, rubbers and plastics.

How to Use

Apply to clean, dry, frost-free surfaces. Typically, no primer is necessary; however, for best adhesion to concrete, use a primer such as DOWSIL™ 1205 PR-Prime Coat. DOWSIL™ 832 Multi-Surface Adhesive Sealant will dry to the touch in 20 minutes.

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

When stored at or below 90°F (32°C), DOWSIL™ 832 Multi-Surface Adhesive Sealant has a useable life of 18 months from 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 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.

Packaging Information

DOWSIL™ 832 Multi-Surface Adhesive Sealant is available in 10.1 fl. oz (299 mL) cartridges, 4.5 gal (17 L) pails, and 45 gal (170 L) drums in selected colors.

Limitations

- Not intended for food-contact applications
- Requires atmospheric moisture to cure
- Not for use in submerged structural or adhesive applications
- Not designed for high-movement joints
- Not for application to oily or dirty surfaces
- Most paints will not adhere to sealant

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 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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