



Technical Data Sheet

DOWSIL™ 722 Multipurpose Sealant

FEATURES

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxycure 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 (-76°F) to +180°C (356°F), short peaks up to +205°C (401°F)

General purpose silicone adhesive/sealant (specified)

APPLICATIONS

- General industrial sealing and bonding applications

TYPICAL PROPERTIES

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

CTM ¹	ASTM ²	Property	Unit	Result
As supplied				
0062A		Appearance		Non-slump paste
		Color(s)		White, black or clear
0364A		Extrusion rate ³	g/minute	315
0095A		Tack-free time	minutes	12
Mechanical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity				
0097B	D1475	Specific gravity		1.02
0099E	D2240	Durometer hardness, Shore A		31
0137A	D412	Tensile strength	MPa	2.2
0137A	D412	Elongation at break	%	490

¹CTM: Corporate Test Method, copies of CTMs are available on request.

²ASTM: American Society for Testing and Materials.

³Extrusion 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 DOWSIL™ 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOWSIL 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 DOWSIL™ 722 Multipurpose Sealant to one of the prepared surfaces and 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 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) DOWSIL 722 Multipurpose 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

DOWSIL 722 Multipurpose 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 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 WWW.CONSUMER.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 32°C (90°F) in the original unopened containers, this product has a usable life of 30 months from the date of production.

As DOWSIL 722 Multipurpose 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 INFORMATION

This product is available in a variety of container sizes. Contact your local 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 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, www.consumer.dow.com or consult your local Dow 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 customer's 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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