Technical Data Sheet

DOWSIL™ 1080 Oxime Sealant

FEATURES & BENEFITS

- One component adhesive silicone sealant
- Cures at room temperature when exposed to moisture
- Neutral cure (oxime cure system)
- Non-sag, paste consistency
- Cures to tough, flexible rubber
- Temperature range from -40°C to 150°C
- Good adhesion to many substrates
- Available in white, black or translucent

General purpose silicone adhesive/sealant

APPLICATIONS

Because of its features, DOWSIL™ 1080 Oxime Sealant might be considered:

- As a formed in place gasket for general industrial sealing and bonding applications
- For sealing dissimilar metals and corrosion sensitive surfaces like chrome, copper, steel
- For general sealing of glass to metal, access doors
- As caulking joints in ducts, cement surfaces and metal pipes

TYPICAL PROPERTIES

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

CTM*	Property	Unit	Result
As Supplied			
0176	Appearance		Non-slump Paste
	Color(s)		White, Black or Translucent
0097B	Specific Gravity		1.03
0364	Extrusion Rate[1]	g/min	420
0098	Tack Free Time	min	15
As Cured[2]			
0099	Durometer Hardness	Shore A	30
0137A	Tensile Strength	KPa	1800
0137A	Elongation at Break	%	400

*CTM: Corporate Test Method, copies of CTM's are available on request
[1]Extrusion Rate : 3.2 mm orifice at 0.62 MPa
[2]Mechanical Properties, cured for 7 days in air at 25°C and 50% relative humidity

DESCRIPTION

DOWSIL 1080 Oxime Sealant is a one part neutral silicone sealant with paste like consistency that cures to a tough, rubbery solid when exposed to moisture in air. It is especially recommended for corrosion sensitive materials where acid curing type of sealants cannot be used or curing odor may be objectionable.

DOWSIL 1080 Oxime Sealant has excellent resistance to weathering, vibration, moisture, ozone and extreme temperatures.

HOW TO USE

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone and methyl ethyl ketone.

Apply DOWSIL 1080 Oxime Sealant to one of the prepared surfaces then quickly cover with 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.

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 below 32°C (90°F) in original unopened containers, this product has a usable life of 18 months from the date of production.

As DOWSIL 1080 Oxime Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of cure material may form in the tip of a tube or cartridge during storage. This can be easily removed and does not affect the remaining contents.

PACKAGING INFORMATION

This product is available in variety of container sizes.

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.

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