Technical Data Sheet

DOWSIL™ 7097 Silicone Sealant

FEATURES & BENEFITS

- Ease of application. Ready to use as supplied; one-component, moisture cure, no need for mixing.
- Weatherability; offers resistance to sunlight, rainwater, snow, ozone and extreme temperatures.
- Durability; the cured sealant can maintain its elasticity in temperatures of -50°C to 150°C without hardening, cracking or degrading.
- Reasonable operation time; allows operators greater control of application and tooling time.
- No slumping; can be used for the sealing of vertical and wide joints.
- Suitable for weatherproofing applications such as glass, aluminum extrusion and composite panels.
- Cures to a durable, flexible, elastic silicone rubber seal.

Neutral cure, one-component, silicone sealant/adhesive

APPLICATIONS

DOWSIL™ 7097 Silicone Sealant is a one-component, neutral curing silicone sealant which can provide a long-term, elastic, water-proof rubber seal.

TYPICAL PROPERTIES

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

Test*	Property	Unit	Result
As supplied: test at room temperature of 25°C and relative humidity of 50%			
	Flowing, sag (slump)		none
CTM0097	Specific gravity		1.45
CTM0364	Extrusion rate	g/min	345
CTM0098	Working time	min.	approx. 20
CTM0095	Tack free time	min.	approx. 40
	Deep section curing[1]	mm/day	2
As cured: after 7 days at atmospheric temperature of 25°C and relative humidity of 50%			
CTM0099	Hardness, Shore A		22
CTM0137 A	Tensile strength	MPa	1.6
	Temperature durability	°C	-50 to +150
CTM0137 A	Elongation	%	700

*CTM: Corporate Test Method, copies of CTMs are available on request.
ASTM – American Society for Testing and Materials.
[1]Curing speed and operation time can vary with atmospheric temperature and humidity levels. High temperature and humidity results in higher curing speeds, while low atmospheric temperature and humidity results in slower curing speeds.

HOW TO USE

Surface Cleaning

The surface of the substrate should be sufficiently clean, dry, flat and free of foreign matter. Completely remove any existing sealant.

For non-porous surfaces such as glass and coated aluminum extrusion, remove any grease, oil or dust using a clean cotton cloth and a solvent such as ketone, ethyl carbinol or 75% alcohol. With a dry cloth, remove any residual solvent or dust.

For the selection of solvent, please refer to the Dow adhesion test report.

Use of Primer
Consult the Dow adhesion test report to determine if the use of a Dow primer is recommended. The Dow adhesion test report can be requested from Dow.

Masking and Tooling
Masking tape can be used in the area adjacent to the joint to ensure a neat sealant line, preventing the surrounding surplus sealant from contaminating the substrate surface.

- Tool the joint surface as soon as the sealant is applied, keeping the surface smooth and flat, and ensuring that the edge of the joint is full of sealant.
- Complete the tooling before the sealant skin forms (e.g. in working time). Convex-surface tools are recommended for tooling to allow the joint to remain full of sealant. Tooling must be performed when sealing the horizontal joint to prevent any liquid (e.g. rainwater and cleaner) from staying on the sealant surface.
- Do not use soap or water as tooling assistants.
- After the tooling and before the sealant cures, remove masking tape.
- Do not touch the surface of the sealant within the 48 hours following its cure. Avoid sealant contact with cleaner or solvent (e.g. bleaching agent) during this period.
- When a flammable solvent is used, proper precautions should be applied. For porous material surfaces, allow the sealant to cure completely before removing the masking tape. Cured sealant can be removed with a knife.
- The sealant releases gas during curing; the odor disappears after it is cured. The completely cured sealant is harmless.

Sealant Filling
- Cut the nozzle at an angle of 45° depending on the shape and specification needed.
- Tighten the nozzle onto the sealant tube.
- Put the sealant tube into the cartridge gun. Use pneumatic or manual cartridge gun.
- Apply sealant to the bottom of the joint to fill the joint completely and to ensure adhesion to both sides of the joint. Do not apply the sealant simply on the surface as the sealant cannot fully fill the joint by gravity.

HANDLING PRECAUTIONS
Before handling, you can obtain the material safety data sheet from your local office.

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 in the original unopened containers, this product has a usable life of 12 months from the date of production.

PACKAGING INFORMATION
DOWSIL 7097 Silicone Sealant is available to customers in 590 ml foil sausage package. Please contact your local sales office to obtain the relevant information.

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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