



## DOWSIL™ SE 5088 Sealant

One-part neutral cure type silicone sealant for clean rooms

### Features & Benefits

- Room temperature vulcanize (RTV)
- Mixing is not required
- Minimized silicone volatiles
- Excellent weatherability
- Excellent unprimed adhesion
- Non flow

### Composition

- One-part, neutral-cure, RTV silicone sealant

### Applications

- DOWSIL™ SE 5088 Sealant is a silicone sealant, which is intended for use such as specific joint seal, panel adhesion etc. in clean rooms.

### Typical Properties

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

Test <sup>1</sup>	Property	Unit	Result
JIS A 1439	Tack free time	min.	22
JIS K 6249	Specific gravity	g/cc	1.41
JIS K 6249	Hardness (JIS type A)		19
JIS K 6249	Tensile strength	MPa	1.74
JIS K 6249	Elongation	%	534
CTM 0625B	Low molecular weight siloxane content (D4–D10)	ppm	24

1. JIS: Japan Industrial Standard  
CTM: Corporate Test Method, copies of CTMs are available on request.

### Description

DOWSIL™ SE 5088 Sealant is a neutral cure type silicone sealant. Due to one-part sealant, DOWSIL™ SE 5088 Sealant can be filled easily and cures at room temperature. This non-flowable type sealant reacts with atmospheric moisture and cures to silicone rubber.

DOWSIL™ SE 5088 Sealant is a silicone sealant specifically designed to reduce the content of low molecular weight siloxanes which may be one of causes of particulate contamination in clean rooms where handling semiconductors, precision optical equipment, and electronic devices.

**Colors**

DOWSIL™ SE 5088 Sealant is available in three colors: white, ivory, and light gray.

**How to Use**

Please comply with the “Sealing Material Handbook”, “JASS (Japanese Architectural Standard Specification), 8 Waterproofing Work”, and “Technical guidelines for watertight design and application of outside wall joint structure”.

**Primer**

Please use the primer to achieve reliable adhesion, especially when using glass, metal, and porous materials as substrates. In addition, to confirm adhesion properties, we recommend you conduct tests on the substrate in use. Typical primers are shown below, however please refer to the primer data sheet for details of primers.

Please contact a Dow technical engineer for specific advice.

- Glass, metal, coated metals: DOWSIL™ Primer- D3(RF)

**Handling  
Precautions**

- The surface of the substrate should be clean and dry before applying sealant.
- If movement occurs on joints during sealant curing process, defects such as surface wrinkles or cracks may generate.
- When using an air gun to apply, pressure should be controlled below 0.3 MPa (3.0 kgf/cm<sup>2</sup>). Higher pressure may cause squeezing of sealant or breaking of cartridge.
- When using back up materials and waterproofing seals made of EPT (EPDM), or CR, note that change in sealant quality (poor adhesion, discoloration, or softening) may be observed if the sealant comes in contact with EPT (EPDM), or CR. Prior confirmation is recommended.
- Applying uncured or curing stage oxime sealant may cause the uncured sealant to discolor.
- Bubbling and cracking may occur if the sealant is applied to a substrate during the summer when surface temperatures may be extreme (particularly with dark color substrates).
- Change in sealant quality (poor adhesion, discoloration, softening) may be observed if the sealant comes in contact with back-up material or tarpaulin made from EPT (EPDM) or CR. Prior testing is recommended.

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 under a cool and dry place, and in un-opened container, DOWSIL™ SE 5088 Sealant has a usable life of 240 days.

**Packaging  
Information**

DOWSIL™ SE 5088 Sealant is available in a 330 ml plastic cartridge.

**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, [dow.com](http://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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