



Anhui Surmount New Materials Co., Ltd.

SMT-Z0T Neutral Transparent Silicone Sealant

Product Introduction

SMT Z0T is a one-component, neutral room-temperature curing silicone elastic sealant. It features excellent weather resistance and adhesion. It is non-corrosive to most building materials (except copper) and bonds well, making it an ideal waterproof sealing material for building door and window installation.

Performance Characteristics

- One-component, translucent, easy to use, with good workability. Apply directly with a caulking gun.
- Non-oily, neutral curing, non-corrosive to building materials such as coated glass and most metals.
- Excellent aging resistance, UV resistance, ozone resistance, and water resistance.
- Excellent high and low-temperature resistance: After curing, it does not become brittle, harden, or crack at -50°C , and does not soften or degrade at 150°C , maintaining good strength and elasticity.
- Excellent adhesion to most building materials.
- Good compatibility with other neutral silicone sealants.

Scope of Application

- Installation sealing for various building doors, windows, and window glass.
- Sealing, bonding, and repairing other building materials such as metal, tiles, and marble.
- Weatherproof sealing for canopies, skylights, and exterior curtain walls.
- Interior general sealing.

Usage Limitations

- Do not use as a structural sealant.
- Not suitable for use on steel or polycarbonate materials.
- Not recommended for use in airtight spaces, as the sealant requires moisture from the air to cure.
- Do not apply when the material surface temperature is below 5°C or above 40°C .
- Do not use on frosty or damp surfaces.
- Do not use in areas of continuous water immersion or perpetual dampness.
- Avoid contact with rubber materials (e.g., gaskets, rubber spacers) to prevent yellowing.
- Avoid contact with acidic or alkaline substances (e.g., exterior wall cleaning solutions) to prevent discoloration.



Anhui Surmount New Materials Co., Ltd.

- Do not use on materials that may exude oils, plasticizers, or solvents, such as surfaces of oil-impregnated wood.

Physical Properties (23°C, 55% RH)

Item		Result	Test Standard
Slump	Vertical, mm	≤3	GB/T 13477.6
	Horizontal	No deformation	GB/T 13477.6
Extrusion Rate, mL/min		≥150	GB/T 13477
Tack-Free Time, h		≤3	GB/T 13477.2
Tensile Modulus, MPa	23°C	>0.4 or >0.6	GB/T 13477.8
	-20°C		GB/T 13477.8
Adhesion after Extension at Standard Conditions		No Failure	GB/T 13477.10

Application Instructions

1. Before Application:

- Conduct compatibility tests between the sealant and contacting materials, as well as adhesion tests with the intended substrates before application.

2. Application Method:

- Application surfaces must be clean, dry, and free from contaminants.
- Place the cartridge into a suitable caulking gun. Cut the nozzle according to the joint width. Extrude the sealant into the joint, ensuring it makes full contact with both sides of the joint.
- Tool the sealant firmly to ensure adhesion and remove any excess material.

3. Precautions:

- Use the product within its shelf life. Do not use expired product.
- Strictly follow the procedures established during adhesion testing.
- The product releases trace chemicals during curing. Ensure adequate ventilation in the workspace. It is non-toxic after curing.
- Keep out of reach of children.
- Application in a well-ventilated area is recommended. In case of skin contact, wipe off immediately and rinse thoroughly with water and seek medical attention if necessary.
- Ambient temperature and humidity affect the working time (tack-free time) and curing speed. Monitor environmental changes before application and adjust or control accordingly.

Storage and Transport



Anhui Surmount New Materials Co., Ltd.

This product is classified as non-hazardous for transport. Store in a cool, dry place below 27°C. The shelf life is 12 months. Use as soon as possible after receipt.

Packaging

This product is available in cartridges 300ml or sausages 590ml. Custom packaging quantities may also be available upon request.

This instruction manual is for reference purposes only and does not carry any warranty. Please test its suitability beforehand.