

PRODUCT DESCRIPTION

HT S50 Weather-seal Silicone Sealant is a one-part, high strength reinforced Neutral Cure, Medium Modulus silicone sealant which cures upon exposure to atmospheric moisture at room temperature.

HT S50 Weather-seal Silicone Sealant being Neutral Cure, does not emit odors associated with acetoxycure sealant, and is virtually non-corrosive to metal.

The unique features of silicone rubber are superior high & low temperature resistance, water resistance and outstanding weatherability.

HT S50 Weather-seal Silicone Sealant provides excellent adhesion to glass, metal, ceramics, wood, and numerous construction materials. This product is highly suitable for application for various glazing and waterproof applications using PVC and Aluminium Composite Panels.

FEATURES:

- One-Part, Ready to use, Neutral Cure sealant
- Non- Staining
- Reduce dirt-pickup and resists streaking / staining
- Excellent Waterproofing & Weatherproofing capability
- Good elasticity and restoration prevents movement of substrate on thermal change condition
- Even after vulcanization, has initial flexibility gives strong resistance against the continuous restore and elongation
- Good durability
- Ease of Caulking over a wide temperature range.
- ± 50% Joint Movement Capability
- Excellent adhesion to many materials

STANDARD COMPLIANCE:

HT S50 Weather-seal Silicone Sealant meets or exceeds the test requirements of:

- ASTM C920, Type S, Grade NS, Class 50, Use-NT, Use-A, Use-M and Use-O.
 - ASTM C1248
- * Tested by TÜV SÜD PSB Singapore

APPLICATION:

- For waterproof sealing of joints in metal, glass, concrete, ceramic, wood and numerous construction materials.
- For glass-to-glass and glass-to-metal sashing
- For pre-fabricated housing, freight containers, cold storage rooms interior sealing and duct-work.

TYPICAL PROPERTIES:

| Characteristics | Result | Test Method |
|--|--|-------------|
| Consistency | Paste | - |
| Specific Gravity | 1.42 | - |
| Extrudability | > 10 ml/min | ASTM C1183 |
| Curing Method | Moisture Cure | - |
| Slump | 0 mm | ASTM C639 |
| Tooling Time | < 8 minutes | - |
| Tack Free Time @ 23°C | < 30 minutes | ASTM C679 |
| Curing Time (hrs/ t=2mm) | Max. 24 hrs | - |
| Hardness (Shore A) | 32 | ASTM D2240 |
| Tensile Strength | 1.4 MPa | ASTM D412 |
| Elongation | > 500 % | ASTM D412 |
| Dynamic Joint Movement | ± 50% | ASTM C719 |
| Adhesion-In-Peel, average | 27.4 N | ASTM C719 |
| Effects of Heat Ageing/ Accelerated Weathering | No Crack after UV Exposure & after Bend Test | - |
| Application Temperature | 4°C to 40°C | - |
| Performance Temperature | -48°C to 149°C | - |

STORAGE AND SHELF LIFE

HT S50 Weather-seal Silicone Sealant should be stored in sealant containers at temperatures at between 15°C to 27°C. Please avoid exposure to temperature above 50°C for long time. Please avoid contamination of water and alcohol.

The product is very sensitive to air therefore containers must be kept tightly sealed after opening.

Refer to the "Use Before Date" on the packaging before use. In cases where shelf life has been exceeded, the local representative should be contacted for further information, prior to intended use of this material.

PACKAGING:

HT S50 Weather-seal Silicone Sealant is available in 300 ml e Cartridges packaged in 25 units per carton.

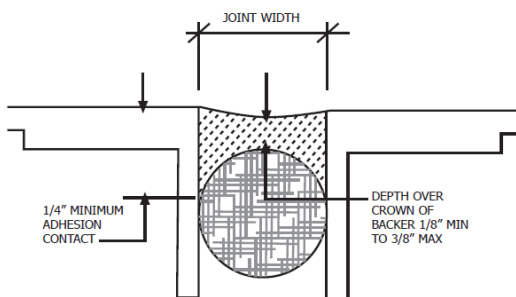
COLOR:

White, Charcoal Grey and Black
Customized colors are available, please contact our Sales if needed.

DESIGN CRITERIA:

HT S50 Weather-seal Silicone Sealant can be applied to joints between 6mm and 50mm wide and applied between 6mm and 25mm deep.

Joints which are expected to experience continual cyclic movement should be designed such that the sealant is applied to an optimum width to depth ratio of 2:1 otherwise per manufacturer's advice.



The sealing joint gap is formed using a sealant-compatible backer foam, which supports the sealant during application and provides a bond breaker at the base of the slot to allow movement to be accommodated over the full width of the sealant.

INSTALLATION:

Surface Preparation

Clean the surface of the joints off all contaminant's impurities. Concrete form release agents, water repellents, concrete laitance, all old sealants and other surface treatments and protective coatings are examples of materials which must be removed from the joint surfaces to obtain proper sealant adhesion.

Dust, loose particles, etc. should be blown out of joints with oil-free compressed air or vacuum cleaned.

Clean all metal, glass and plastic procedures with suitable cleaning solvent agent. Detergent or soap and water treatments are not recommended. In all cases where used, solvents should be wiped dry with a clean cloth or lint-free paper towels.

Cleaning of all surfaces should be done two to three hours before the sealant is applied.

Priming

HT S50 Weather-seal Silicone Sealant has primerless adhesion characteristics to many common construction materials; however, some materials such as concrete, mill finish aluminum, galvanized steel and other materials with variable surface characteristics often require priming.

In view of unpredictable surface characteristics, preliminary adhesion test should be made to check adhesion to the specific materials to be used on the project. For difficult-to-bond substrates, use of a sealant primer is recommended, per manufacturer's advice.

Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces. Masking tape should be removed immediately after the finish tooling of HT S50 Weather-seal Silicone Sealant is accomplished and before the sealant begins to cure.

Application

Install back-up material or joint filler as specified. Apply HT S50 Weather-seal Silicone Sealant in a continuous operation, horizontally in one direction and vertically from the bottom to the top of the joint opening. A positive pressure adequate to properly fill and seal the joint width should be employed. Tool or strike HT S50 Weather-seal Silicone Sealant with light pressure to spread the material against the back-up material and the joint surfaces.

The lightweight consistency of HT S50 Weather-seal Silicone Sealant responds easily to light tooling pressure and facilitates void-free placement.

Excess sealant should be cleaned from metal and plastic surfaces while still incurred using a solvent.

HANDLING & SAFETY

Safety Data Sheets (SDS) are available upon request from Manufacturer. Similar information for solvents and other chemicals used with HT S50 Weather-seal Silicone Sealant may be obtained from your suppliers.

LIMITATIONS

HT S50 Weather-seal Silicone Sealant is not recommended for: Horizontal joints exposed to foot or vehicular traffic or in horizontal joints where prolonged water immersion occurs.

HT S50 Weather-seal Silicone Sealant should not be applied on:

- Concrete surfaces which contain residual form oil or other bond breaking contaminants that may interfere with sealant adhesion.
- Building materials which might bleed oils or solvents; these include, but are not limited to, impregnated wood and certain vulcanized rubber gaskets or tapes, or failed sealants and caulking compounds.
- Areas where atmospheric contaminants might change the appearance of light-colored sealants. Silicone sealant is weather-resistant and resists chalking, degradation and erosion. As a result, environmental contaminants tend to cling to the sealant and the sealant surface may take on the color

of the contaminant. Darker color of the sealant should be used to minimize this effect.

- Unpredictably absorptive surfaces such as marble or limestone, unless a standard of appearance has been agreed upon by the seller and the purchaser as a result of testing for stain or discoloration.
- Totally confined spaces, as the sealant requires atmospheric moisture for completion of cure and generation of properties.
- Unprepared or wet surfaces. Do not use water for tooling and do not apply to wet or damp surfaces.
- Surfaces where adhesion has not been verified by on-site testing under actual use conditions.
- Applications where FDA or USDA compliance is required.

DISPOSAL

Dispose according to local authority regulations. Do not dispose down drains or into local waterways.

MAINTENANCE

No maintenance is needed. If silicone sealant becomes damaged, replace damaged portion. Clean surfaces in damaged area and repair with fresh silicone sealant.

Country of Origin

Republic of Korea

LIMITED WARRANTY

TWO NINE SIX O TRADING PTE. LTD. warrants that its product will conform to its specifications at the time of application or use. The product must be stored in accordance with TWO NINE SIX O recommendations, and used or applied before the earliest of (i) the indicated "Use Before Date", (ii) one year from date of purchase, or (iii) expiration of such other period or recommended storage time stated in the its literature. If notified, in writing, of a claim within two weeks of the product's use or applications, TWO NINE SIX O will, at its option, replace the purchase price of its product which does not satisfy the forgoing warranty. THE FOREGOING SHALL CONSTITUTE THE SOLE AND EXCLUSIVE REMEDY FOR DEFECTS OR FAILURE OF THE PRODUCT, AND THE SOLE AND EXCLUSIVE LIABILITY OF TWO NINE SIX O.

LIMITATION OF LIABILITY

TWO NINE SIX O shall in no event, whether the claim is based on warranty, contract, tort, strict liability, negligence or otherwise, be liable for incidental or consequential damages, or for any damages in excess of the amount of the purchase price.