



SILTECH 100

TECHNICAL DATA SHEET

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SILTECH 100 is a one-part acetoxy silicone sealant that cures with atmospheric moisture to form a rubber-like seal for specialized glazing sealing and bonding applications – joint sealing and assembly. Weathering and UV resistance are excellent, important in glazing applications where most organic sealants fail. SILTECH 100 is unaffected by high or low temperatures and its good physical properties are designed to give outstanding durability and performance. SILTECH 100 is suitable for sanitary applications. SILTECH 100 contains anti-fungal agent.

PROPERTIES

- SILTECH 100 has good adhesion to non-porous substrates like, glass, ceramics, some metals and coated surfaces. Some surfaces may require the use of primer.

Property	*CTM	Unit	Value
Colour	-	Visual	Clear, white, black, grey, bronze & aluminum
Curing Mechanism	-	-	Acetoxy
Application temperature	-	°C	+5 to +40
Specific Gravity	097B	g/ml	0.96-0.97
Extrusion	364C	g/minutes	800
Penetration	0155A	mm/30s	270
Tensile strength	0137A	MPa	2.0
Skin-over time 23 °C	098B	Minutes	15
Elongation at break	0137A	%	570
Temperature resistance	-	°C	-40 to +100
Cure rate 23 °C(1day)	-	mm	2
2mm thickness S2 dumbbells (ASTM D412)			
E-Modulus 100%	0137A	MPa	0.4
Tensile Strength	0137A	MPa	2.0
Elongation at break	0137A	%	570
Hardness (Shore A)	99E	Shore A	17
*Values listed are indicative and should not be used as specifications			
<input type="checkbox"/> Actual drying times depends on wind, humidity, temperature and film thickness <input type="checkbox"/> High humidity or low temperature and heavy films extend drying times <input type="checkbox"/> To determine if primer is required, sample should be tested <input type="checkbox"/> Primer selection is dependent on substrate			

APPLICATIONS

- Standard and butt glazing
- General sealing and assembly
- Bathroom, kitchen and other sanitary application

NOTE: If there is any uncertainty regarding the application, adhesive tests should be carried out.

APPLICATION GUIDELINE

To achieve good adhesion to the desired substrate, it is recommended that all surfaces are dry and free from oil, grease, dust and other loose matter. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. The solvent used should be checked for compatibility with the contact area. Detergent, soap and water treatments are not recommended.

LIMITATIONS

SILTECH 100 is not recommended:

- For use underwater
- For use in food contact applications
- When painting of the cured sealant is required
- For structural adhesion on bear metals or surfaces subject to corrosion

SILTECH 100 should not be applied to or used on:

- In structural glazing applications
- On porous substrates
- Under exceedingly hot or cold conditions
- On wet, damp, frozen or contaminated surfaces
- On excessively basic or acidic substrates
- In exceedingly large structural cavities

PRECAUTIONS

- This material requires atmospheric moisture to cure from paste to rubber and may not attain its listed final cured rubber properties when used in designs or applications where the silicone is encapsulated and without access to atmospheric moisture.
- Some materials that bleed plasticizers or oils can cause a discoloration on the surface of sealants. When sealing, to or over items such as; rubberized gaskets, bituminous-based materials, butyl or oil-based products, oily woods, tapes, etc., Silicone & Technical Products recommends that compatibility testing be performed prior to use to confirm the suitability of the use of these materials when in contact with each other.

- Silicone materials are hydrophobic in nature and if inadvertently over-applied onto adjacent joint surfaces (even if removed immediately), can create a water proofing effect on some substrate types when the substrate is wet.

PRECAUTIONS

SILTECH 100 is available in 280ml cartridges, 600ml sausages and 195kg drums.

HANDLING SAFETY AND STORAGE

SILTECH 100 material safety data sheets are available on request. Uncured product may cause irritation to eyes, skin and respiratory system. Should there be contact with eyes, flush with water immediately and seek medical attention. Avoid oral contact. Use only in well-ventilated areas. Store SILTECH 100 out of reach of children and store unopened containers in a dry place below 25°C. Shelf life is 18 months if stored in original sealed container, please consult details printed on cartridge.

Each user bears the full responsibility for making its own determination as to the suitability of Supplier material, products, services, recommendations or advice for its own particular purposes. Each user must identify and perform test and analysis sufficient to assure its finished parts will be safe and suitable for use under end-use conditions. Because actual use of products by the user is beyond the control of Supplier, such use is within the exclusive responsibility of the user, and supplier cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Further, no statement contained herein concerning a possible or suggested use of any material product, service or design is intended or should be construed to grant any license under any patent or other intellectual property right of Supplier or any of its subsidiaries or affiliated companies, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.