



Sealants and Adhesives

300

Technical Data Sheet

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Product Description

SILTECH 300 is a non-slump one-part acetoxy silicone. The applied sealant reacts with atmospheric moisture to produce a highly elastic silicone rubber. SILTECH 300 is specifically designed and recommended for high temperature applications.

Properties

SILTECH 300, when cured is resistant to UV radiation, moisture, extreme temperature fluctuations, tensile and compressive stresses.

- Solvent free, low shrinkage
- Non-sagging behaviour for horizontal, vertical and overhead applications
- Fast curing at room temperature
- Adheres to many substrates; glass, ceramic tiles, enamel and eloxal. Some surfaces require the use of primers.
- Flexibility at low (-40°C) and high (270°C) temperature
- Excellent resistance to weather, ozone, UV and chemicals
- Excellent heat resistance up to 270°C
For long periods and up to 300°C for short exposures

Application Guideline

To achieve good adhesion to the desired substrate, it is recommended that it is dry, clean, grease and dust free. It is recommended to use a solvent such as MEK or Acetone to clean surfaces before application of the sealant. It is important to check the compatibility of the solvent with the area being cleaned. Detergent or soap and water treatments are not recommended. If there is any uncertainty regarding the application, adhesion tests should be carried out.

Applications

Properties	Unit	Value
Colour	Visual	Red
Specific gravity	g/cm ³	1.05 ± 0.1
Hardness	Shore A	20 - 60
Extrusion	ml/min	>80
Tensile Modulus	mPa	>0.4
Tack free time (23°C @ 50% humidity)	min	<180
Cure Rate	mm/day	>2
Movement Capability	%	20
Temperature resistance	°C	-40° to +260°C
Application temperature	°C	-10 to +50
Slumpability (vertical)	mm	<3
Slumpability (horizontal)	mm	No change in shape
Elastic Recovery	%	>80

*Values listed are indicative and should not be used as specifications

Please Note

- Actual drying times depends on wind, humidity, temperature and film thickness
- High humidity or low temperature and heavy films extend drying times
- To determine if primer is required, sample should be tested
- Primer selection is dependent on substrate

Application Instructions

SILTECH 300 is particularly recommended for sealing applications where high heat resistance is required for long periods. If there is any uncertainty regarding the application, adhesive tests should be carried out.

Handling Safety and Storage

SILTECH 300 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. SILTECH 300 should be stored out of the reach of children, as well as in a dry place, between -20° and 50°C. Shelf life is as per date on the product.

Packaging

SILTECH 300 is available in 280ml cartridges.

Legal Disclaimer

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 perform a test to determine whether analysis is sufficient to assure that the product 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.