



Sealants and Adhesives

9000

Technical Data Sheet

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Product Description

SILTECH 9000 is a one component paintable water-based sealant, which on curing will form an acrylic rubber sealant that will exhibit very good adhesion characteristics to most construction substrates. It is particularly suitable for decorative finishing before painting, filling of cracks and many other DIY applications.

Typical Physical Properties

Properties	Unit	Value
Colour	Visual	White
Density	g/cm ³	1.64 ± 0.03
Tensile strength	MPa	≥0.10
Max tensile strength	MPa	≥0.30
Skin over time	Minutes	45 (25°C @ 40% RH)
Curing time	Hours	24 (depending on bead size, 25°C @ 50% RH)
Elongation at break	%	>100
Hardness	Shore A	30 - 40
Tack free time	Minutes	15 - 60
Completely dry time	Hours	24
Volume shrinkage	%	29
Temperature resistance	°C	-20 to +70
Joint movement capability	%	12
Application temperature	°C	+5 to +40

*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
- All tests are done in accordance with ASTM D412C tests methods

Properties

The acrylic rubber formed from SILTECH 9000 is resistant to UV radiation, moisture extreme temperature fluctuations (Between -30°C & 80°C), and tensile and compressive stresses.

The elasticity of the rubber is retained throughout the temperature range indicated. SILTECH 9000 adheres well to wood, masonry, brick and plaster. It cures to form a flexible non-yellowing seal without staining or bleeding.

Application Instructions

SILTECH 9000 should only be used where slight joint movement is anticipated. In extremely deep joints, use foam joint filler. Tooling is recommended and, if possible, should be completed in one continuous stroke.

To achieve good adhesion to the desired substrate, it is recommended that it is dry and paintable.

SILTECH 9000, when diluted with water, can be used as an initial bond primer. It is recommended to use a solvent such as MEK or Acetone to clean surface before application of the sealant. It is important to check the compatibility of the solvent with the area being cleaned. If there is any uncertainty regarding the application, adhesion tests should be carried out.

Application

SILTECH 9000 was developed for sealing around windows, door frames, baseboards or any joint or gap where a weather-tight seal is required. A minimum of 2 hours dry time is required before painting with latex or oil-based paint. Allow extra dry time during periods of high humidity and/or cool temperatures.

Limitations

SILTECH 9000 is not recommended:

- For use underwater
- For use in food contact applications
- For structural adhesion

SILTECH 9000 should not be applied or used:

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

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.

Precautions

- This material requires the loss of 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 acrylic is encapsulated and without the possibility to lose moisture to the atmosphere.
- 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 and 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.

Handling Safety and Storage

SILTECH 9000 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. Store SILTECH 9000 in a dry place, below 30°C. Shelf life is 12 months, if stored in original sealed container, please consult details printed on cartridge. Keep out of reach of children.

Packaging

SILTECH 9000 is available in 260ml cartridges and 250kg drums.