



1. PRODUCT NAME

SilTron Pourable Silicone Sealant

2. MANUFACTURER

RJ Watson, Inc 11035 Walden Ave Alden, NY 14004 PH: 716.901.7020 FX:
716.901.7015

3. PRODUCT DESCRIPTION

SilTron is a two-part, cold-applied, self-leveling, fast-curing, ultra-low modulus, 100% silicone material designed for sealing of concrete pavement joints experiencing thermal movement.

SilTron cures to a resilient silicone rubber seal in a very short time when compared to typical one part moisture cure sealant. This is especially beneficial when sealing joints that will experience movement shortly after sealant application. These applications include bridges, parking structures, parking lots, sidewalks, pedestrian decks and plazas.

Basic Uses: SilTron can be used in new construction as well as a restoration sealant in remedial work. Typical surfaces sealed with SilTron include concrete, asphalt, carbon steel, and pre-cast pavers. All masonry and steel surfaces require primer. Asphalt surfaces do not require primer use. SilTron is a self-leveling material for use in joints up to 2.5" in width with slopes of 6% or less. Please contact RJ Watson Technical Services before specifying this product for larger joint openings.

Advantages: SilTron has the following features:

- Excellent weatherability- This sealant's 100% silicone composition is virtually unaffected by UV, precipitation, ozone, and temperature extremes.
- Resilient- Sealant will remain flexible under extreme temperature swings. (-49°F to 300°F)
- Fast Curing- This sealant's fast cure profile allows quick job site turn-around. Early movement will not effect sealant performance.
- Self-leveling- No tooling required when applied through typical static mixing equipment.
- One-to-one volume mix ratio
- Works well on irregular joint surfaces
- Auto-bonding- Will bond to itself tenaciously without the need for priming.

Limitations: SilTron should not be used under the following conditions.

- In applications involving natural stones. There is the potential for staining these surfaces.
- In totally confined spaces.

- To surfaces that will be painted.
- In applications involving total water immersion.
- Sealant cannot be mixed in an open bucket using standard mixing paddles. Proper mixing equipment must be used.
- This product is intended for industrial use only.
Packaging: SilTron is packaged in 20 fl. oz. sausage packs for easy application. Two sausage packs, one labeled Part A and one labeled Part B are required for a total of 40 fl.oz. per unit.
Color: SilTron after mixing is light gray in color. The activator is white with the base being dark Gray.

4. Technical Data

Table I : Typical Properties			
As Supplied	Type Cure Color Part A, Part B Consistency Skin over time Traffic ready time Full Cure, 77°F/50%RH		Ultra-low modulus Two-part White, Dark gray Self-leveling 20 minutes 1 hr. 48 hrs
As Cured 48 hrs. 77°F/50% RH	ASTM D 412 ASTM D 412 ASTM D 412 ASTM C 1135 ASTM C-1135 ASTM C-719 ASTM D 2240	Extension, % Tensile, psi Modulus @ 150% Ext., psi Modulus @ 25% Ext., psi Modulus @ 50% Ext., psi Ultimate Extension, % % Movement Durometer, Shore 00	750 140 15 5 12 >600 +100/-50 65

5. Installation

Surface Preparation: Joint surfaces and backer rod must be dry and free of all contaminants such as oil, grease, dust, corrosion, tar, asphalt, loose aggregate, frost, form release agents, and decorative and protective coatings. Methods of removal may include sandblasting or wire brushing. Contact RJ Watson, Inc with any technical questions.

Application: SilTron is applied as a self-leveling material. It is a ultra low modulus material, which will withstand extreme movement when applied properly. SilTron will withstand movement up to 100% in extension and 50% in compression. However, when designing joint systems it is advised that movement ranges are limited to +/- 25% movement. This will ensure a long lasting, durable bond by providing a built in tolerance for variations in job site conditions.

Joint Design: Maximum recommended sealant depth at the crown of the backer rod is 0.5 inches. A closed cell round backer rod is recommended with a diameter be 25% larger than the joint opening at the time of install (Fig A.) An open cell round backer rod with continuous outer impervious skin being acceptable when irregular joint widths are encountered. The open cell backer rod is more compressible and able to accommodate irregular joint widths. All sealant applications should be recessed from the joint surface a minimum of 0.25 inches. For joints in excess of 2.0 inches in width, the recess requirement should be increased to as much as 0.5 inches.

ESTIMATED SEALANT USAGE

Joint width, inches	Joint depth, inches	40 oz. kit yield, linear feet¹
0.5	0.25	35
1.0	0.5	9
1.5	0.5	6
2.0	0.5	4.5
2.5	0.5	3.8

Cleaning: Excess sealant should be removed from all surfaces while still uncured. Cured sealant is very difficult if not impossible to remove without altering or damaging the surface it is adhered to.

Storage: Twelve (12) months from date of manufacture when stored in original, airtight containers at temperatures below 90°F (32°C). Do not let product freeze.

Precautions: Use in well-ventilated areas. Contact with uncured sealant may irritate eyes or skin. Flush eyes with water for fifteen minutes and seek medical attention if irritation persists. May be harmful if swallowed.

Consult Material Safety Data Sheet for additional information.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH OF CHILDREN.**

6. AVAILABILITY AND COST

SilTron is exclusively available by contacting RJ Watson, Inc or through an RJW authorized reseller.

7. WARRANTY

RJ Watson, Inc PH: 716.901.7020

Email: Sales@rjwatson.com

RJ Watson warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all other warranties expressed or implied, and in no case will RJ Watson be liable for incidental or consequential damages.

8. MAINTENANCE

If the sealant is damaged and the bond is intact, cut out the damaged area and re-apply. No primer is necessary. If the bond has been affected, remove the sealant, clean and repair joint in accordance with instructions under “installation”.

9. TECHNICAL SERVICES

Please contact RJ Watson and request to speak with a Bridge Joint Specialist regarding your SilTron install. Field Service options are available for an additional fee.

