

# SPECTRUM 100% SILICONE CAULKING

## PRODUCT INFORMATION

---

### DESCRIPTION

Spectrum 100% Silicone is a one-part acetoxy cure adhesive sealant that is suitable for general industrial sealing and adhesive applications. This product will adhere to clean metal, glass, many types of wood, silicone resins, vulcanized silicone rubber, ceramics and plastic surfaces.

Spectrum 100% Silicone has good resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics. Fully cured, Spectrum 100% Silicone can be used for extended periods at temperatures up to 450°F (232°C).

### APPLICATION

- Rubber gloves and proper eye wear are recommended.
- Do not open cartridges until preparatory work has been completed.
- Insert cartridge into caulking gun, cut plastic nozzle according to the size of the joint or area of application.
- Apply Spectrum 100% Silicone caulking in a smooth continuous bead and force into joint or area of application.
- For a smooth and uniform appearance, tool with a dampened putty knife.

### Curing

The cure progresses inward from the surface. At conditions of at least 75°F (24°C) and 50% relative humidity, the sealant forms a tack-free skin within 20 minutes. Tooling is not practical after this skin begins forming, and should be completed within 5 to 10 minutes of application, even though this may require alternate periods of applying and tooling. Likewise, if

masking tape has been used to mark off the area, it should be removed before the tack-free skin forms.

Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. Sections up to 1/8-inch thick become rubbery solids in about 24 hours at room temperature at 20% relative humidity. Less moisture content reduces it slightly.

In applications where Spectrum 100% Silicone may be partly or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement. Metal-to-metal bonds should not overlap more than one inch. Every application involving confinement during cure should be thoroughly tested before commercialization. The odor given off during cure is due to the liberation of acetic acid. This odor disappears as the cure progresses, and is not detectable after the cure is complete.

### Bonding

Thoroughly clean and degrease metal and plastic surfaces, then rinse all surfaces, except plastic, with acetone. Rubber surfaces should be roughened with sandpaper, then wiped with acetone. Follow the precautions given on solvent container label.

### Sealing

Using Spectrum 100% Silicone in sealing applications follows approximately the same step-by-step procedures as outlined for bonding applications. After preparing the surface where required, the sealant is applied by forcing it in the joint or seam to obtain full contact between sealant and surfaces.

### TYPICAL PROPERTIES

#### Uncured

Specific Gravity. . . . . 1.03  
Colors. . . . . clear & white  
Slump. . . . . NIL  
Tack-Free Time  
(77F & 50%RH) min. . . . 10-20

*Cured (7days at 77F + 3F & 50% and + 5% TH)*

Elongation. . . . . 425  
Durometer, Shore A2. . . . . 25  
Tensile Strength. . . . . 330psi  
Movement Capacity. . . . ± 25%  
Extrusion Rate. . . 350 gr/min

### USES

- Seal heating, ventilating or air conditioning duct work
- Sealing cracks or gaps around windows, vents, ducts, fixtures and lights
- Seal leaks in gutters, downspouts, ducts and piping
- Seal cracks in interior walls and ceilings, door joints and fixtures
- Seal out water from compartments in machinery or appliances
- Seal around freezer doors and windows to prevent frost and condensation from forming
- Seal electrical connections and boxes to waterproof
- Seal joints and cracks in the roofs and sides of truck trailers
- Seal stainless steel food service equipment
- Seal electrical controls, instruments, motors, fans and machinery to keep out dust, dirt and moisture
- Make quick sheet metal patches
- Seal wall-floor and wall-ceiling seams

# SPECTRUM 100% SILICONE CAULKING

## PRODUCT INFORMATION

- Seal windows in oven doors and flues on gas appliances, flanged pipe joints and access doors
- Adhering auto and appliance trim, including metal, fabric and fabric-backed plastics
- Sealing trailers, truck cabs
- Filleting and caulking joints in sheet metal stacks, ductwork and equipment housings
- Bonding gaskets in heating and refrigeration units
- Sealing marine cabins and windows
- Anti-abrasion coating
- Bonding signs and sign letters
- Attaching screwless brackets or nameplates and tacking plastic materials to metal
- Formed-in-place gasket for gear boxes, compressors and pumps

### SPECIFICATIONS

#### Meets Performance

**Requirements for the following:** FDA/USDA requirements for use in establishments operating under Federal Meat and Poultry Inspection Program. When cured and washed ingredients remaining or which could migrate to food are listed on FDA Regulation No. 21 CFR 177.2600 Federal Specification TT- S-001543A, TT-S-00230C, and ASTM-920-86.

### CAUTION

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOR MAY IRRITATE EYES, NOSE AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention. IN CASE

OF SKIN CONTACT, remove from skin and flush with water. Sealant releases acetic acid (vinegar-like odor) during cure. When heated to temperatures above 150C (300F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde.

### KEEP OUT OF REACH OF CHILDREN.

### STORAGE AND SHELF LIFE

When stored in original unopened container at or below 90°F (32°C), **Spectrum 100% Silicone** has a shelf life of 12 months from date of shipment. Containers should always be kept sealed when not in use.

### SHIPPING LIMITATIONS

None

### USERS PLEASE READ

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all of the uses, or the conditions of use to which these products may be put, no warranties concerning the fitness or suitability for a particular use or purpose are made.

You should thoroughly test any proposed use of our products and independently conclude satisfactory performance in your application.

Likewise, if the manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain such authorization.

The supplier warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

Suggestions of uses should not be taken as inducements to infringe any patents.

\*Information on this data sheet is subject to change without notice.



Peoria, AZ