

PRODUCT NAME: CRL 43S Silicone

One-Component Silicone Elastomeric Sealant

PRODUCT DESCRIPTION

CRL 43S Silicone is a one-component room temperature curing silicone elastomer. 43S Silicone is a proven construction sealant with various field applications in place that continue to perform and meet building needs.

CRL 43S Silicone complies with the following Federal Specifications:

- TT-S-001543A (COM-NBS) Class A, Federal Specification for Silicone Building Sealants
- TT-S-00230C (COM-NBS) Class A, Non-Sag Federal Specification for One-Component Sealants
- ASTM C920 Standard Specification for Elastomeric Joint Sealant as Type S, Grade NS, Class 25, Use NT, G, and A
- CAN/CGSB-19.13-M97

BASIC USES

CRL 43S Silicone is especially designed for joining and sealing a variety of structural materials (glass, aluminum, metal alloys, and many plastics). It will seal curtainwall joints, multi-pane windows, steel windows, aluminum windows, glass partitions and skylights. Indoor uses include sealing around bathtubs, showers and sanitary installations (clear, white, translucent white and tan colors contain an additive that makes the cured silicone resistant to mildew).

LIMITATIONS

CRL 43S is not recommended for:

- Use as structural silicone, or insulating glass glazing.
- Concrete and stone expansion joints, horizontal decks, patios, driveway or terrace joints where abrasion or physical abuse is encountered.
- Sealing submerged joints, particularly where porous surfaces permit water infiltration to the bond surface.
- Interior or exterior structural sealing below the waterline in marine applications.
- Designs that will be painted after application of the sealant. Paint films bridge the sealant but do not adhere to the sealant.
- Tooling techniques using solvents or detergent soap solutions are not recommended.
- CRL 43S Silicone should not be applied in applications where appearance is critical without conducting a test to determine its compatibility and migration to the assembly surfaces.
- Totally confined spaces, because the sealant requires atmospheric moisture for cure

- Auto trim
- Appliance trim (i.e., adhesive trim)
- Black 43S (Cat.No.43SBL) is recommended for glass-to-glass butt joints because butt joints sealed with clear sealant may contain small amounts of air that are trapped during the packaging and/or application of the sealant ,as well as bubbles that can form during the curing of the silicone due to gas that is given off or movement of the glass before final cure. Appearance standards and subsequent repairs (e.g., limited to sight lines) should be established and agreed upon prior to sealant application, if clear is used.

#### SURFACE LIMITATIONS

CRL 43S Sealant should not be applied to the following surfaces:

- Not recommended for surfaces with special protective or cosmetic coatings without prior consultation of the manufacturer. Such surfaces include, but are not limited to, mirrors, reflective glass, surfaces coated with polyethylene or polypropylene where delamination is possible.
- Construction materials that may exude oils, resins, plasticizers or solvents. These include, but are not limited to, unfinished or impregnated woods, certain rubber or plastic gaskets and tapes, and failed non-silicone sealants or caulking compounds.
- Concrete, marble, limestone, lead or lead-coated surfaces, and copper are not acceptable substrates for CRL 43S Silicone.
- Unclean or wet surfaces.

#### TECHNICAL DATA

Shore A (Hardness) ASTM C-661 . . . . .	21
Ultimate Tensile Strength, ASTM D-412 . . . . .	232 psi
Lap Shear ASTM D-1002 . . . . .	190 psi
Tear Strength . . . . .	.25 ppi
Elongation at Ultimate Break, ASTM D-412 . . . . .	512%
Elasticity Modulus at 100% psi, ASTM D-412 . . . . .	80 psi
Consistency . . . . .	Non-Flowing
Specific Gravity . . . . .	0.96
Tooling Time . . . . .	Varies with Temperature/RH
Tack Free Time ASTM C-679 . . . . .	13 Minutes
(Movement Capability), ASTM C-719 Modified . . . . .	25%
VOC . . . . .	.23 g/L
Flow; Sag or Slump, ASTM C-639 . . . . .	Nil
UV Resistance, ASTM C-793 . . . . .	No Change After 1 Year
Service Temperature . . . . .	-90°F (-68°C) to 400°F (204°C)