



600 S. RANCHWOOD BLVD.  
YUKON, OK 73099  
(405) 354-3644 PH  
(405) 354-3645 FX

## TECHNICAL DATA SHEET

# COLOR SIL – 100% RTV Silicone Sealant

Packaging: 10.3 fluid ounce cartridge (305 mL)

### Product Description:

*Color Sil* is a single component, acetoxy cure silicone sealant. This Professional grade RTV silicone sealant is mildew resistant and VOC compliant. A great solution for a wide range of applications. It provides a watertight, flexible seal that won't crack, crumble or shrink. Once cured, it's temperature range is (-40°F to 400°F).

*Color Sil* is a one part, acetoxy silicone, mildew resistant when cured, non-corrosive silicone sealant caulk that cures in the presence of atmospheric moisture to produce a durable and flexible silicone rubber sealant.

### **Suggested Uses:**

#### ***Caulking and Sealing***

Wall Systems  
Trim, Moldings  
Counters  
Backsplashes  
Flooring  
Sinks & Plumbing Fixtures  
Kitchen/Bath Areas  
RV, Trailer, Marine  
Shower Stalls  
General Applications

### **Adheres To:**

FRP/FRL panels  
Painted Surfaces  
Glass  
Ceramic  
Porcelain  
Most Fabric / Textiles  
Laminates  
Non-Oily woods  
Most metals\*  
Granite / Quartz  
Cultured Marble

\*Not recommended for use on brass, copper, iron, galvanized metals or other surfaces prone to attack by weak acids.

### **PACKAGING:**

10.3 fl. oz. (305ml) Cartridge, 12 per carton.

### **COVERAGE:**

3/16" bead, 42.8 linear feet. (5mm bead, 13 linear meters)

### **INSTALLATION:**

Preparation for All Applications:

- Areas to be sealed should be thoroughly cleaned and dry. Remove all substances that inhibit silicone adhesion. Remove oils, soap, glue/adhesive debris, dust, loose caulk and solvent residue or residual.
- Joint width or depth should not exceed ½". If joint depth exceeds ½", backer rod material should be used.
- Application needs an area where silicone would be allowed to fully and properly cure, not a totally confined space.



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**COMMON LIMITATIONS:**

- Joints where abuse and abrasion are expected to be encountered.
- Joints should be above grade and not exposed to prolonged water immersion.
- Building materials that may bleed oils, plasticizers or solvents, i.e. impregnated wood, green or partially vulcanized rubber, etc.
- Substrate and joint should be acclimated to the current application to reduce shifting, separation, shrinking or expanding.
- Silicone should be applied with air temperature between -40°F & 100°F.
- Store in temperatures below 100°F in a dry place.
- Surfaces that will require painting, because Color Sil is not paintable.
- Certain porous materials. Surface may show slight dark stained areas due to oil from silicone.
- Many factors beyond Color Rite’s control and uniquely within user’s knowledge and control, can affect the use and performance of the silicone in a particular application. The user is solely responsible for evaluating the product and determining whether it is fit for user’s particular purpose and adequately maintained.

**TYPICAL PROPERTIES**

CURE SYSTEM	SINGLE COMPONENT ACETOXY
PHYSICAL PROPERTIES (cured)	RUBBER
SPECIFIC GRAVITY	1.04
EXTRUSION RATE, g/min	370
TEMPERATURE RANGE	-40°F to 400°F
INTERMITTENT TEMPERATURE RANGE	400 F
SAG or SLUMP	Nil
MODULUS	4 (HIGH)
TENSILE	1.8
ULTIMATE TENSILE	310 psi
SKIN OVER TIME	Approximately 5 minutes
TACK FREE TIME	1 hour
TOOLING TIME	5 minutes or less
FULL CURE	24 hours
SHORE A HARDNESS, STANDARD GLOSS	25
SHORE A HARDNESS, SATIN FINISH	30
SHORE A HARDNESS, SANDED TEXTURE	28
ELONGATION	500 %
DYNAMIC JOINT MOVEMENT	+/- 25%
ADHESION	15-100%CF 015P33B
TEAR STRENGTH	25ppi
PEEL STRENGTH	20ppi
WEATHERABILITY, 6000 hours weatherometer	No Change
VOC CONTENT	29.86 g/l

\*\*All properties retrieved from lab conditions, 77°F at 50% humidity.



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### **APPLICATION DIRECTIONS:**

Color of uncured and cured silicone does not vary. Sample of color should be tested prior to installation

1. Completely prepare area for application, see guidelines above.
2. Apply tape to both sides of joint to create a straight edge. If you do not want to deal with the hassle of taping, COLOR RITE'S PRE-TOOLING MIST can be an easier alternative.
3. Cut cartridge tip just above threads.
4. Thread nozzle onto cartridge.
5. Cut nozzle to desired bead size.
6. Apply silicone sealant to desired area.
7. Tool as desired immediately after application. Tooling should be done in timely manner to avoid skin over. Silicone will skin over within approximately 5 minutes. Dries to touch in 1 hour, and cures and bonds in 24 hours. Allow 7 days for maximum cure.
8. Remove any masking tape immediately after tooling.

### **SILICONE REMOVAL:**

- Uncured – Clean unwanted silicone using a commercial solvent such as xylol, touol, or methyl ethyl ketone.
- Cured – Removal must be performed by mechanical means such as razor knife.

### **STORAGE AND SHELF LIFE - UNOPENED:**

- *Color Sil* has an optimum shelf life of 4 – 8 months (depending on finish), when stored in original unopened cartridges at or below 60°F.
- All cartridges are clearly marked with an expiration date.
- *Color Sil* has tested to be a useable product up to one year after manufacture date. After eight months some curing may occur varying from skim coat to a 1/4" cured silicone plug in the nozzle end of an unopened cartridge. Simply remove the plug and proceed.
- Refrigeration is not necessary but may help extend shelf life.
- Temperatures down to -8°F have no effect on gunability. When applied at this temperature the curing process requires a longer time period.

### **PRECAUTIONS:**

- Causes skin irritation.
- Causes serious eye irritation.
- Wash face, hands, and skin thoroughly after handling, if concerned, get medical advice/attention.
- Wash contaminated clothing after use.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing. If eye irritation persists, get medical advice/attention.
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
- EMERGENCY PHONE NUMBER INFOTRAC 800-535-5053 / 352-323-3500