



## TECHNICAL DATA SHEET

**COLOR SIL** available in over 300 colors, is a 100% RTV silicone caulk/ sealant. *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.

Color Sil is available in a sanded texture or a satin finish that reduces the natural gloss by 60%.

*Color Sil* is designed for caulking and sealing joints or seams for many interior and exterior finishing products including; solid surface, granite, quartz products, engineered stone, concrete countertops, decorative melamine panels, laminates, marble, glass, wood, clean metal, plastic laminates, grout, ceramic tile, plumbing fixtures, moldings, aluminum, vinyl, fiberglass, wood brick, wall coverings or panels, and some flooring installations.

Color Sil is mold mildew resistant.

### **PACKAGING:**

10.3 fl.oz. ( 305ml) Cartridge, 6 per carton.

### **COVERAGE:**

3/16" bead, 55 linear feet. (5mm bead, 16.76 linear meters)

### **COLORS:**

**300** solid colors

Custom color matching is available.

### **INSTALLATION:**

**PREPARATORY WORK:** Clean all joints and glazing pockets, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants and protective coatings.

### **INSTALLATION Using Mist and Perfect Bead Tool**

1. Slice off the tip of threaded end of cartridge above the last thread.
2. Screw the nozzle onto the cartridge. Remove snap-on cap and cut the end of the nozzle to desired bead size.
3. Place small bead of caulk / sealant in the joint. Bead should be approximately 1/8" x 1/8" to avoid waste.
4. Before tooling, spray **Mist** onto the **Color Sil** and the Perfect Bead tool to help smooth the silicone bead during tooling. Mist helps to keep excess silicone from adhering to areas where excess silicone is not wanted.
5. Place longest beveled edge of Perfect Bead tool on horizontal surface and rotate small end of tool in direction of excess silicone removal.
6. Tilt Perfect Bead tool towards vertical surface until short beveled edge touches vertical splash surface.
7. Using moderate pressure, move Perfect Bead tool along silicone bead. The tool removes excess silicone normally with one pass. Intermittent removal of excess silicone from tool is suggested for best performance. Perfect Bead tool should be damp and free of excess silicone during all tooling.

Use of the Perfect Bead tool eliminates feathered edges, which contribute to silicone adhesion failures and unsightly silicone beads using typical tooling procedures.



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### *Installations using masking tape.*

1. Apply masking tape to both sides of seam area, exposing seam only.
  2. Follow steps 1 and 2 from above.
  3. Completely fill seam or joint with caulk / sealant, apply evenly.
  4. Use Perfect Bead tool or clean putty knife to work silicone into seam.
- Remove masking tape immediately after tooling.

A thin bead of **Color Sil** will accommodate more movement than a thick bead. Joint depths should be no thicker than 1/2 ". For perimeter sealing or expansion joint design the ratio of the joint width to sealant depth should be about 2:1.

Polyurethane or polyethylene foam backer rod is recommended for deep joints. These materials permit the application of a thin bead and act as bond breakers, which allow the silicone to stretch freely with joint movement.

In uncured state, clean unwanted silicone using a commercial solvent such as xylol, touol, or methyl ethyl ketone. Cured sealant must be removed by mechanical means such as razor knife.

### LIMITATIONS

**Color Sil** should not be used in the following applications:

- Involving building materials that bleed oils, plasticizers or solvent materials.
- Surfaces that will require painting, because silicone sealants are not paintable.
- Applications involving prolonged submersion in water.
- Certain porous materials may show slight dark areas due to oil stain from silicone.

### TYPICAL PROPERTIES

CURE SYSTEM.....	ACETOXY
PHYSICAL PROPERTIES (cured).....	RUBBER
SPECIFIC GRAVITY.....	1.04
EXTRUSION RATE, g/min.....	370
TEMPERATURE RANGE.....	-62 to 350 F
INTERMITTENT TEMPERATURE RANGE.....	400 F
SAG or SLUMP.....	Nil
MODULUS.....	4 (HIGH)
TENSILE.....	1.8
ULTIMATE TENSILE .....	310 psi
SKIN OVER TIME.....	10* minutes
TACK FREE TIME.....	20* minutes
TOOLING TIME.....	7 to 10 minutes
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



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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.

***COLOR SIL*** is a silicone material, chemically stable and shows little change in physical properties after exposure to sunlight, rain, snow, ozone, temperature extremes and weathering. ***COLOR SIL*** shows little change in gunability at temperatures from -8 degrees to 120 degrees permitting the sealant to be applied in any season.

### ***FEATURES***

Long life reliability, cured sealant stays rubbery from -60degrees F to 400 degrees F without tearing, cracking, drying out, or becoming brittle.

### STORAGE AND SHELF LIFE***UNOPENED***

***Color SIL has an optimum shelf life of eight months***, when stored in original unopened cartridges at or below 60 degrees 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. Storage in a freezer has extended shelf life up to two years at a temperature of -8 degrees F.

Temperatures down to -8 degrees F have no effect on gunability. When applied at this temperature the curing process requires a longer time period.

### ***AFTER BEING OPENED***

***Color Sil***, like all other silicone caulks, is not designed to have a significant shelf life after opening.

***Color Sil***, designed to be used one time, when first opened. Not opened, used, stored for a period of time and then used again.

***After*** a cartridge is opened and entire contents not used, but you want to attempt to save the remaining caulk. Leave caulk -filled nozzle on the cartridge with the snap-on cap attached. Storage in a freezer at a temperature of -8 degrees F has extended shelf life up to two years in tests, even after being opened. When ready to use a previously opened, stored cartridge, first remove cured plugs from the nozzle and inside the nozzle-attachment end of cartridge. Then using caulk gun, discharge small amount of caulk from cartridge to check silicone viscosity before re-attaching nozzle.

### ***PRECAUTIONS:***

On contact, uncured sealant may irritate eyes. Avoid contact.

KEEP OUT OF REACH OF CHILDREN.

To safely use this product, read and abide by current material safety data sheet.

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