



TECHNICAL DATA SHEET 100 % RTV SILICONE CAULK/SEALANT

DESCRIPTION:

POLY-SIL is a one part, 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.

POLY-SIL is designed for caulking and sealing joints or seams for many interior finishing products including: solid surface, quartz surfaces, engineered stone, granite, marble, glass, wood, clean metal, plastic laminates, grout, ceramic tile, plumbing fixtures and some flooring installations.

POLY-SIL shows little change in gunability at temperatures from 32 degrees to 120 degrees F

FEATURES:

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

PACKAGING:

6 fl.oz., (178.5 ml) Cartridge, 12 per carton.

Coverage is 52 linear feet with a 1/8" x 1/8" bead. 15.84 linear meters with a 3mm bead.

A 6 fl.oz. cartridge is normally sufficient to do the average kitchen installation when using the ***POLY-SIL TOOL*** with the ***MIST***. Both of these products are manufactured and available from COLOR RITE, INC.

COLORS:

Solid and particulated colors.

Custom color matching is available.

Preparation For All Applications / Installations.

Areas for application should be thoroughly clean and dry. Remove all loose caulk, solvent residue, paste, oil and debris.

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 ***Poly-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.



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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.

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.
5. Remove masking tape immediately after tooling.

A thin bead of **POLY-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.

In uncured state use a commercial solvent such as xylol, touol, or methyl ethyl ketone to remove excess silicone. Cured sealant must be removed by mechanical means such as razor knife.

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.

STORAGE AND SHELF LIFE:

POLY-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.

POLY-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 in testing has extended shelf life to 18 months. Storage at or below 32 degrees F has extended shelf life up to three years.

Temperatures down to -8 degrees F have no effect on gunability, but **POLY-SIL** must be at room temperature before applying. When applied at or below freezing the curing process requires a longer time period and adhesive qualities are less.



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AFTER BEING OPENED

POLY-SIL like all other silicone caulks, is not designed to have a significant shelf life after opening. **POLY-SIL** is 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. Storing a used cartridge at temperatures below 45 degrees F will extend the shelf life and storage at or below freezing has extended shelf life up to three 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.

TECHNICAL DATA:

TYPICAL PROPERTIES

SAG or SLUMP.....	Nil
MODULUS.....	52
TENSILE.....	83
ULTIMATE TENSILE	150 psi
TACK FREE TIME.....	<45 minutes
TOOLING TIME.....	7 to 10 minutes
FULL CURE.....	24 hours
SHORE A HARDNESS.....	17
ELONGATION.....	240 %
DYNAMIC JOINT MOVEMENT.....	+/- 25%
ADHESION.....	15-100%CF 015P33C
TEAR STRENGTH.....	25ppi
PEEL STRENGTH.....	20ppi
WEATHERABILITY, 6000 hours weatherometer.....	No Change

LIMITATIONS

POLY-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.

PRECAUTIONS

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

To safely use this product, read and abide by current Material Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN.

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