

Silicone Sealants

Dow Corning® 795 Silicone Building Sealant

FEATURES

- Suitable for most new construction and remedial sealing applications
- Versatile – high performance structural glazing and weathersealing from a single product
- Available in 11 standard colors; custom colors also available

BENEFITS

- Excellent weatherability – virtually unaffected by sunlight, rain, snow, ozone and temperature extremes of -40°F (-40°C) to 300°F (149°C)
- Excellent unprimed adhesion to a wide variety of construction materials and building components, including anodized, alodined, most coated and many *Kynar*®1-painted aluminums²
- Ease of application – ready to use as supplied
- Ease of use – all-temperature gunnability, easy tooling and low-odor cure byproduct
- Meets global standards (Americas, Asia and Europe)

COMPOSITION

- One-part, neutral-cure, RTV silicone sealant

Neutral, one-part silicone sealant

APPLICATIONS

- Structural and nonstructural glazing
- Structural attachment of many panel systems
- Panel stiffener applications
- Weathersealing of most common construction materials including glass, aluminum, steel, painted metal, EIFS, granite and other stone, concrete, brick and plastics

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.

Method	Test	Unit	Result	
As Supplied				
ASTM C 679	Tack-Free Time, 50% RH	hours	3	
	Curing Time at 25°C (77°F) and 50% RH	days	7-14	
	Full Adhesion	days	14-21	
ASTM C 639	Flow, Sag or Slump	inches (mm)	0.1 (2.54)	
	Working Time	minutes	20-30	
	VOC Content ¹	g/L	28	
As Cured – After 21 days at 25°C (77°F) and 50% RH				
ASTM D 2240	Durometer Hardness, Shore A	points	35	
ASTM C 794	Peel Strength	lb/in (kg/cm)	32 (5.7)	
ASTM C 1135	Tensile Adhesion Strength	at 25% extension	psi (MPa)	45 (0.310)
		at 50% extension	psi (MPa)	60 (0.414)
		Joint Movement Capability	percent	±50
ASTM C 719	Staining (granite, marble, lime-stone, brick and concrete)		None	
As Cured – After 21 days at 25°C (77°F) and 50% RH followed by 10,000 hours in a QUV weatherometer, ASTM G 53				
ASTM C 1135	Tensile Adhesion Strength	at 25% extension	psi (MPa)	35 (0.241)
		at 50% extension	psi (MPa)	50 (0.345)

¹Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds. For a VOC data sheet for a specific sealant color, please send your request to product.inquiry@dowcorning.com.

DESCRIPTION

Dow Corning® 795 Silicone Building Sealant is a one-part, neutral-cure, architectural-grade sealant that easily extrudes in any weather and cures quickly at room temperature.

This cold-applied, non-sagging silicone material cures to a medium-modulus silicone rubber upon exposure to atmospheric moisture. The cured sealant is durable and flexible enough to accommodate ±50 percent movement of original joint dimension when installed

in a properly designed weatherseal joint. In a properly designed structurally glazed joint, the sealant is strong enough to support glass and other panel materials under high windload.

APPROVALS/ SPECIFICATIONS

Dow Corning 795 Silicone Building Sealant meets the requirements of:

- Federal Specification TT-S-001543A (COM-NBS) Class A for silicone building sealants
- Federal Specification TT-S-00230C

¹*Kynar* is a trademark of Atofina Chemicals Inc.
²Contact your local Dow Corning Sales Application Engineer for specifics.

- (COM-NBS) Class A for one-component building sealants
- ASTM Specification C 920 Type S, Grade NS, Class 50, Use NT, G, A and O
 - ASTM Specification C 1184 for structural silicone sealants
 - Canadian Specification CAN2-19.13-M82

COLORS

Dow Corning 795 Silicone Building Sealant is available in 11 colors: black, white, gray, limestone, bronze, sandstone, adobe tan, dusty rose, rustic brick, blue spruce and charcoal. Custom colors may be ordered to match virtually any substrate.

HOW TO USE

Please consult the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your local Dow Corning Sales Application Engineer for specific advice.

Preparation

Clean all joints, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

Application Method

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but may be necessary for optimal sealing of certain porous surfaces. A test placement is always recommended. Apply *Dow Corning 795 Silicone Building Sealant* in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 15 minutes), tool the sealant with light pressure to spread the sealant against the backing material and

joint surfaces. Remove masking tape as soon as the bead is tooled.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 27°C (80°F), *Dow Corning 795 Silicone Building Sealant* has a shelf life of 12 months from the date of manufacture. Refer to product packaging for "Use By Date."

PACKAGING

Dow Corning 795 Silicone Building Sealant is supplied in 10.3-fl oz (305-mL) disposable plastic cartridges that fit ordinary caulking guns, 20-fl oz (590-mL) sausages and 2- and 4.5-gal (7.5- and 17-L) bulk containers.

LIMITATIONS

Dow Corning 795 Silicone Building Sealant should not be used:

- In structural applications without prior review and approval by your local Dow Corning Sales Application Engineer
- In below-grade applications
- When surface temperatures exceed 50°C (122°F) during installation
- On surfaces that are continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents that may affect adhesion
- On frost-laden or wet surfaces
- In totally confined joints (the sealant requires atmospheric moisture for cure)
- If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- To surfaces in direct contact with food or other food-grade applications

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com, or consult your local Dow Corning Sales Application Engineer.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

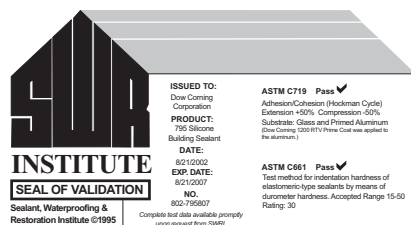
Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

A 20-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Dow Corning Sales Application Engineer for details.





TECHNICAL DATA

PERMATHANE® SM7100 / 7108 Polyurethane Sealant / Adhesive

PRODUCT DESCRIPTION:

Permthane® SM7100/7108 is a one component, gun-grade, non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high performance product is designed with outstanding UV resistance and long term durability. Excellent adhesion is obtained on a wide variety of materials.

ADVANTAGE:

- Accommodates 50% joint movement
- Permanently flexible, excellent weatherability
- Easy to gun – Easy to tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Paintable – non-sticky after cure
- VOC Compliant
- Primerless adhesion to substrates including galvanized steel, aluminum, concrete, glass, Galvalume®, Zinalume®, Kynar 500®, wood, vinyl and fiberglass.

TYPICAL USES:

Permthane® SM7100/7108 is designed to seal construction joint details.

- Waterproof rivet seams and roof rails
- Perimeter joints around windows and doors
- Bonding sidewalls in RV's and trucks
- Sealing vehicle bodies, cab construction, underbody compartments and roofing
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in motor homes
- PCC holding tanks, PCC cooling tower basins
- Sealing door hinges, skylights and portholes
- Air conditioning equipment, flashing and gutters
- Masonry Expansion joints
- Between construction materials of dissimilar expansion coefficients

SPECIFICATION COMPLIANCE:

Permthane® SM7100/7108 meets or exceeds the test requirements of:

- TT-S-00230 C (Type II) Class A,
- Non-sag, One-Component
- ASTM C 920 Type S, Grade NS, Class 25, Use-NT, A, M, G and O
- Commercial item Specification A-A-1556A
- AAMA 808.3 (Exterior Sealing Compound)
- USDA acceptable for use in meat and poultry areas

TYPICAL PROPERTIES:

Property	Typical Value	Test Method
Peel Adhesion:	15 pli minimum	ASTM C794
Tensile Maximum:	300 psi (2.07 N/mm ²)	ASTM D412
Elongation:	500-600%	ASTM D412
Sag:	None	ASTM C639
Hardness (Shore A):	30-40	ASTM C 661
Service Temperature Range:	-40°F to 200°F, (-40°C to 93.3°C)	
Water Resistance:	Passes	AAMA 800
Flash Point:	148°F (64.4°C)	ASTM D56
Shelf Life:	12 months when stored at or below 80°F.	
Skin Time:	2-4 hours	
Cure Time:	24-48 hours	
* Skin and cure times are dependant on temperature, humidity, and porosity of the substrates. The above times are based on a ¼" bead at 75°F and 50% relative humidity. Low humidity, cooler temperature and non-porous substrates will lengthen these times.		

PRETEST FOR ADHESION:

Due to the number and types of substrates available, pretesting for adhesion is recommended. Testing on samples of materials to which it will be applied is intended to eliminate potential field problems and help determine proper surface preparation.

APPLICATION:

Surface Preparation:

- Surfaces must be clean, dry and free of oil or grease. Concrete and masonry surfaces must be free of foreign material, contaminants, water repellents, form oils and laitance.
- Stone surfaces must be cohesively sound and free of contaminants. Granite, limestone, marble and sandstone must be pre-tested for adhesion prior to sealant installation.
- Mill finish aluminum may contain an invisible oil film or oxide. Clean with a good degreasing solvent such as Xylene or toluene.
- Many high-performance coatings or unusual surface treatments may require abrasion of the surface with steel wool or fine emery paper during preparation. In cases where doubt exists, contact Schnee-Morehead®, Inc. technical service for recommendations.

Joint Design:

- Recommended joint width is ¼" to 1". Sealant depth should not exceed joint width, and in case, should depth be greater than ½" or less than ¼"
- Use of closed cell polyethylene backer-rod approximately 25% larger than the width of the joint is recommended for deep joints. A bond-breaker film should be used in shallow joints to prevent three-sided adhesion.
- Do not puncture or prime the backer-rod.

Priming:

- It is expected that SM7100/7108 will adhere and perform in uncontaminated joints with most common substrates, without the use of a primer.
- Joints subjected to intermittent immersion or vertical joints subjected to rain should perform without the need of a primer.
- Priming of masonry or other porous joints is recommended only if the joints will be subjected to prolonged or continuous immersion.

APPLICATION LIMITATIONS:

- SM7100/7108 must not be applied to frost-bearing surfaces or if temperature will be below freezing within 24 hours.
- Tooling techniques using solvents or soapy solutions are not recommended.
- All surfaces must be evaluated for adhesion prior to product acceptance.
- The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance.

Not recommended for:

- a) Unprimed masonry joints that will be subjected to continuous water immersion.
- b) Joints that are contaminated with grease, wax, corrosion, bitumen or cement laitance.
- c) Horizontal joints in floors or decks where physical abuse is encountered.
- d) Special architectural finishes without proper testing.

TOOLING:

Tooling of freshly applied sealant should be done in one continuous stroke. Tool the sealant with adequate pressure to spread the sealant against the back-up material and onto the joint surfaces. Excess sealant should be dry-wiped from all surfaces while still uncured. If joint surfaces have been masked, remove masking tape immediately after tooling. Cured sealant is very difficult to remove.

CLEAN UP:

Immediately remove all excess sealant smears adjacent to the joint with Xylene, toluene or methyl ethyl ketone. Tools

and application equipment may also be cleaned with the same solvents.

Note: The use of these solvents (or other solvents) may be hazardous to your health. Use only in well ventilated areas. **KEEP AWAY FROM OPEN FLAME.** Read all labeling before use. Follow solvent manufacturer's recommendations and instructions for safe handling.

PRECAUTIONS:

If this product is used in direct contact or in close proximity with any other sealant or elastomer, a compatibility test must be conducted by the purchaser or user prior to use. When applied in close proximity, neutral cure silicones will prevent SM7100/7108 from curing. There will be no problem if either sealant is applied and allowed to cure prior to the application of the other. Use caution if applying the silicone first since SM7100 will not adhere to silicone or its residue.

Avoid skin and eye contact. On contact, uncured sealant could cause irritation to the skin and eyes. In case of eye contact, flush eyes with warm water for 15 minutes, call a physician. For skin contact remove sealant with a paper towel. If swallowed, do not induce vomiting, call a physician. **KEEP OUT OF REACH OF CHILDREN.** This product is manufactured for industrial use only.

FIRST AID:**KEEP OUT OF REACH OF CHILDREN.**

Avoid skin and eye contact. Avoid breathing of direct concentrated vapors. Use with adequate ventilation. In the case of eye contact flush eyes with warm water for 15 minutes, call a physician. For skin contact, remove sealant with a paper towel. If swallowed do not induce vomiting, call a physician. This product is manufactured for professional and industrial use only. Refer to the Material Safety Data Sheet (MSDS) for further information. For medical emergency only call ChemTrac 1800-424-9300

Galvalume is a registered trademark of BIEC International, Inc. Kynar 500 is a registered trademark of Elf Atochem North America, Inc. Zinalume is a registered trademark of BHP steel.

EXCLUSION OF WARRANTIES:

AS TO THE HEREIN DESCRIBED MATERIALS, SCHNEE-MOREHEAD®, INC. MAKES NO WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SINCE THE USE OF THE HEREIN DESCRIBED MATERIALS INVOLVES MANY VARIABLES IN METHODS OF APPLICATION, HANDLING AND/OR USE, THE USER IN ACCEPTING AND USING THESE MATERIALS ASSUMES ALL RESPONSIBILITY FOR THE END RESULT. THE PURCHASE OF THIS SCHNEE-MOREHEAD®, INC. PRODUCT IS SUBJECT TO THE TERMS AND CONDITIONS OF AN "AS IS" SALE, AND IF THE PRODUCT IS PROVED TO BE DEFECTIVE, THE EXCLUSIVE REMEDY, AT SCHNEE-MOREHEAD®, INC.'S OPTION, SHALL BE TO REPLACE THE DEFECTIVE SCHNEE-MOREHEAD®, INC. PRODUCT. SCHNEE-MOREHEAD®, INC. SHALL NOT OTHERWISE BE LIABLE FOR LOSS OF DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL, REGARDLESS OF THE LEGAL THEORY ASSERTED, INCLUDING NEGLIGENCE, WARRANTY OR STRICT LIABILITY.

Complete technical information is available from Schnee-Morehead®, Inc. For technical assistance, customer service and general information call:

**1-800-TRUSTSM
1-800-878-7876**

SCHNEE-MOREHEAD®, INC.

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www.trustsm.com

SEALANTS

33S SILICONE

PRODUCT NAME

CRL 33S Silicone
One-Component Silicone Elastomeric Sealant.

PRODUCT DESCRIPTION

CRL 33S Silicone is a one-component room temperature curing silicone elastomer. 33S Silicone is a proven construction sealant with various field applications in place that continue to perform and meet building needs.

CRL 33S Silicone complies with the following Federal Specifications:

- TTS-001543A (COM-NBS) Class A, Federal Specification for Silicone Building Sealants
- TTS-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
- CGSB-19.13 Canadian Government Specification Board

BASIC USES

CRL 33S 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). CRL 33S Silicone in all colors meets the requirements of FDA regulation number 21CFR177.2600 for use in food-related applications such as walk-in freezers, refrigerated trucks, etc.

CRL 33S is authorized by the United States Department of Agriculture for use in federally inspected meat and poultry plants, and has been classified as USDA-P1.

Certified by NSF to Standard 51-Plastic Materials and Components used in Food Equipment.

CRL 33S Silicone is a "UL Recognized Component".

LIMITATIONS

CRL 33S 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 33S 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.

SURFACE LIMITATIONS

CRL 33S 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, 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 33S Silicone.
- Unclean or wet surfaces.

TECHNICAL DATA

The physical properties of CRL 33S Silicone are shown in Table 1.

TABLE 1 - PHYSICAL PROPERTIES	
Property/Test Methods	Value
Shore A (Hardness) ASTM D-2240	25
Tensile Strength, ASTM D-412	350 psi
Lap Shear at 1/8" Thickness	120 psi
Tear Strength	.25 ppi
Elongation at Ultimate Break, ASTM D-412	500%
Elasticity Modulus at 100% psi, ASTM D-412	.75 psi
Consistency	Non-Flowing
Specific Gravity at 77°F (25°C)	1.04
Tooling Time	Varies with Temperature/RH
Tack Free Time ASTM C-679	20 Minutes
Curing Time	2 Days
(1/4" Bead @77°F (25°C)/50% Relative Humidity)	
Flow; Sag or Slump, ASTM C-639	Nil
UV Resistance, ASTM C-793	Excellent
Service Temperature	-80°F (-62°C) to 400°F (204°C)

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33S Silicone

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AUGUST 2002
(Supersedes September 2000)

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33S Silicone

PRINCIPLES OF JOINT DESIGN

Figure 1 illustrates why a thin bead of silicone sealant will accommodate more movement than a thick bead. Obviously, the thin bead is the most desirable.

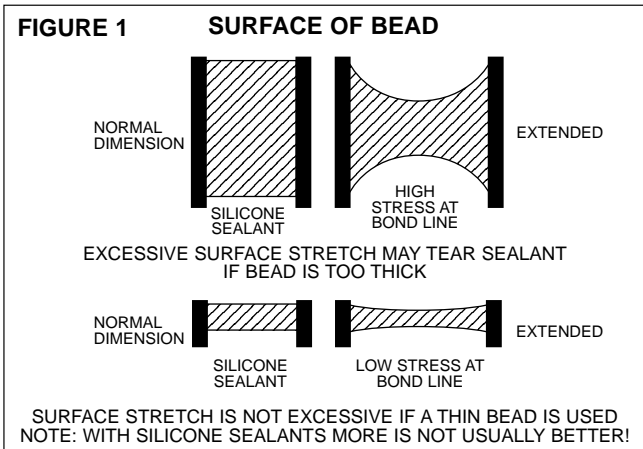
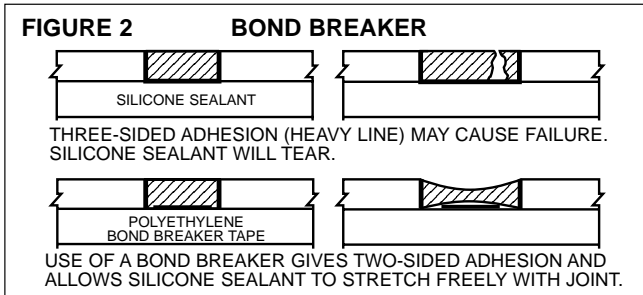


Figure 2 illustrates why silicone sealants need bond breaker tape to prevent undesirable three-sided adhesion.



JOINT DIMENSIONS

Joint width should be four times anticipated movement, but at least 1/4" wide. Maximum joint movement should not exceed 25% applicable to both horizontal and vertical joints. CRL 33S generally follows standard ASTM Specifications (2 to 1, width to depth ratio), when used at widths of 1/4" or more.

INSTALLATION

CLEANING

CRL 33S Silicone requires standard cleaning procedures prior to sealant application. Clean all joints and glazing area by removal of foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants or glazing compounds, as well as any protective coatings. Porous substrates should be cleaned where necessary by grinding, saw cutting, blast cleaning (sand or water), mechanical abrading or a combination of these methods which will be required to provide a sound, clean and dry surface for sealant application. Metal, glass and plastic surfaces should be cleaned by a solvent procedure or by mechanical means. Detergent or soap and water cleaning treatments are not recommended. Protective films must be removed by a solvent recommended by the manufacturer of the component or other means which leave no residue. In all cases where used, solvents shall be applied

with one clean cloth or lint-free paper towel, and then wiped clean with a second cloth or towel. Cleaning solvents should not be allowed to air dry or evaporate without wiping.

Architectural coatings, paints and plastics shall be cleaned with a solvent approved by the manufacturer of that product. Cleaning of all surfaces should be done on the same day in which sealant is applied.

TABLE 2 - PRIMER RECOMMENDATIONS

Surface	Surface Pre-Treatment	Primers for CRL 33S
Steel (Galvanized, Red Lead, Primed, Cold Rolled)	Solvent Wipe	P10T
Stainless Steel	Solvent Wipe	P10T
Aluminum (Light Alloys)	Solvent Wipe	P10T
Copper (Brass, Bronze)		Not Recommended
Concrete and Masonry		Not Recommended
Wood (Unfinished, Hard Woods)	Solvent Wipe	P10T
Painted Surfaces	Solvent Wipe	P10T
Glass	Solvent Wipe	Primer Not Needed
Commonly Used Thermoplastics	Solvent Wipe	P10T

MASKING

Areas adjacent to joints should be masked to assure neat sealant lines. Do not allow masking tape to touch the clean surfaces to which the silicone is to adhere. Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Masking should be removed immediately after tooling.

PRIMING

A bead of silicone sealant applied to the material surface at the job site or manufacturing location to test adhesion prior to general job use is always recommended. Primers are required for some surfaces. See Table 2 for primer recommendations. Primers must be applied according to manufacturer's printed instructions. Priming is not usually required on glass, standard aluminum finishes and most metals.

APPLICATION

- Install backup material or joint filler, setting blocks, spacer shims and tapes as specified.
- Apply CRL 33S Silicone with hand gun or pressure equipment according to FGMA standards in a continuous operation using a positive pressure adequate to properly fill and seal the joint. Tool or strike the sealant with light pressure to spread the material against the backup material and the joint surfaces. A tool with concave profile is recommended to keep the sealant within the joint.
- In glazing, tool the sealant applied at the sill so rain, melting snow and cleaning solutions will not pool.

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- CRL 33S Silicone can be applied at extremely low outdoor temperatures provided that surfaces are clean, dry and frost-free. It can be applied in temperatures as low as -35°F (-37°C) and as high as 140°F (60°C).
- Excess sealant should be wiped clean from glass, metal and plastic surfaces while still uncured and followed with a commercial solvent such as xylol, toluol, or methyl ethyl ketone. CRL Silicone Clean Up Spray, Cat. No. 0S2 cleans uncured silicone sealant. Should sealant accidentally contact and begin to cure on adjacent porous surfaces, the excess sealant should be allowed to progress throughout the initial cure of setup. It should then be removed by abrasion or other mechanical means.

If CRL 33S Silicone is used in direct contact with any other sealant or elastomer, a compatibility test must be conducted by purchaser or user prior to acceptance. The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance.

SHELF LIFE/STORAGE

Store at or below 80°F (27°C). Dispose of empty containers in accordance to federal, state and local regulations.

33S has a shelf life of 24 months.

WARRANTY LIMITATIONS

The warranty specifically excludes sealant failure due to:

1. Appearance changes due to deposits of dirt and other materials.
2. Decomposition of the underlying substrates.
3. Excess movement of the structure which exceeds published specification for movement caused by building settlement, design error, or construction error.
4. Mechanical damage caused by external sources.
5. Natural disasters such as fires, lightning, earthquakes, tornadoes, or hurricanes.

MAINTENANCE

No maintenance should be needed. If silicone sealant becomes damaged, replace damaged portion. Clean surfaces in damaged area and repair with fresh 33S Silicone Sealant.

PACKAGING

33S Silicone Sealant is packed in 10.3 fluid ounce plastic cartridges that have been tested and proven to prolong freshness and shelf life. 30 cartridges per case, which fit cartridge caulking guns. Also available in 4.5 gallon pails and 52 gallon drums.

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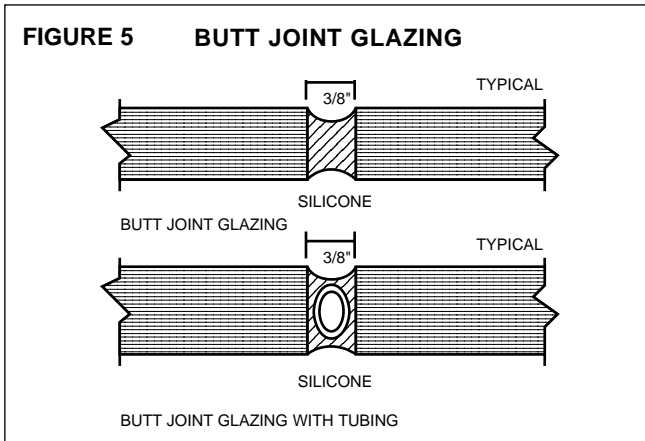
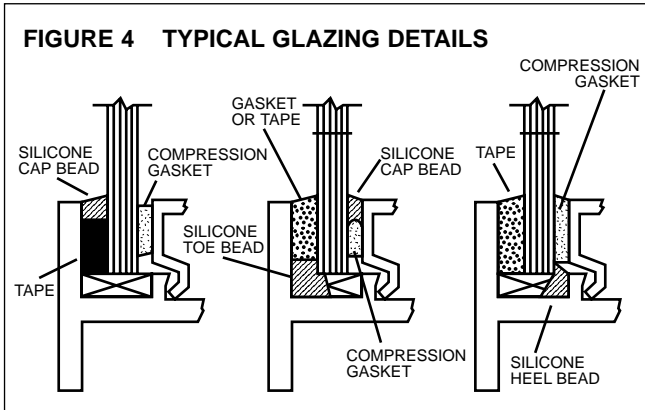
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Cured sealant is usually very difficult to remove without altering or damaging the surface to which it has been misapplied. CRL Cat. No. DGEL10 Sealant Removal Gel may assist cured sealant removal in many cases.

PRECAUTION

Read Material Safety Data Sheet before using product for the first time. Uncured sealant may irritate the eyes. Avoid contact with eyes and skin. Contact lens wearers take appropriate precautions.

IN CASE OF CONTACT, FLUSH EYES WITH WATER, CALL A PHYSICIAN. Remove from skin with dry cloth or paper towel. KEEP OUT OF REACH OF CHILDREN.

TECHNICAL SERVICE

Complete technical information and literature is available from C.R. Laurence Co., Inc. Any technical advice furnished by the company or any representative of the company concerning any use or application of any sealant is believed to be reliable, but the company makes no warranty, expressed or implied, for any use or application for which such advice is furnished.

LIMITED WARRANTY NOTICE

CRL and its manufacturer warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control in the application process. Therefore, except for such replacement or refund CRL and its manufacturers make no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products. CRL and its manufacturers shall have no other liability with respect thereto. User shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the CRL Product Manager.

COOPERATIVE TESTING

Materials submitted for testing should be sent to:

C.R. Laurence Co., Inc.
 Technical Sales Department
 PO Box 58923
 Los Angeles, CA 90058-0923

This program is intended to eliminate potential field problems by pretesting CRL construction sealants with samples of the building materials on which the sealant will be applied. The test will aid in determining the proper surface preparation method, effective solvents for cleaning and whether priming is necessary to achieve optimum adhesion. Following this procedure will remove many of the unknown variables which affect field success.

Test samples of substrates should be identified as to manufacturer, origin, designed use, building project, person and firm originating the request. Appropriate sketches or drawings showing the intended use can be helpful.

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