

SELECTION & SPECIFICATION DATA

Generic Type	Elastomeric polysulfide caulk
Description	Caulk PSC is a two-component, 100% solids, chemically resistant sealant. It will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature. Caulk PSC is to be used as a general purpose expansion joint sealant designed for splash and spill and secondary containment of moderate strength acids, alkalis and some solvents typically found in industrial chemical processing.
Features	<ul style="list-style-type: none"> • State of Florida: Secondary Containment Approval EQ-510 • Long term abrasion and chemical resistance • Excellent bond strength assures good adhesion • Factory proportioned packaging ensures consistent high quality and simplified mixing • VOC Compliant in all U.S. states
Typical Uses	<ul style="list-style-type: none"> • Tank chimes • Secondary containment pits
Color	Gray (0700), Red (6562)
Primer	Caulk PSC may be used without a primer, on steel or concrete when installed in a static joint, however the use of a Primer 67-series product is strongly recommended to mitigate outgassing and promote higher adhesion. When installed in a dynamic joint a Primer 67-series product is required. Contact your representative for other recommendations or more information.
Recommended Thickness	<p>20 mils to 2"</p> <p>Typical chime angle sealant application will range from ½ inch over the angle to approximately 20 mils at the outer edges.</p>
Solids Content	By Volume 100%
Coverage Rate	<p>Typical exterior Chime Angle – 12 linear ft./gallon (based on angle resting flush and a 3" foundation lip).</p> <p>Applications where the angle does not rest flush or where foundation lip is wider will result in significantly lower coverage rate.</p> <p>Typical concrete joints (3/4" wide x 2" deep) – 10 linear ft./gallon</p> <p>Quantities shown are for estimating purposes only. Actual field usage may vary.</p>
VOC Values	As Supplied : 0 g/l
Dry Temp. Resistance	Continuous: 180°F (82°C)
Chemical Resistance	<ul style="list-style-type: none"> • Aliphatic hydrocarbons including unleaded gasoline • Toluene and higher boiling aromatics • Fuel Oil • Crude Oil • Butyl Acetate and higher boiling esters • Ethanol and higher boiling alcohols • Mineral acids and bases <p>While Caulk PSC is resistant to these materials, it should never be put into immersion service without being top-coated with a Dudick or Carboline lining system. Contact Carboline Technical Service for specific recommendations.</p>

Caulk PSC

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	Heavy non-immersion service (i.e. fumes and spillage): Near white, SSPC SP 10 or NACE #2, minimum 2.0 mil profile. Atmospheric service: Commercial SSPC SP 6 or NACE #3, minimum 2.0 mil profile.
Concrete	Concrete must be prepared mechanically to remove the surface laitance. Oils, grease or other contaminants must be removed prior to surface preparation. For all surfaces prime with specific Dudick primer as recommended by your Carboline or Dudick Representative. Refer to the specific primer's Product Data Sheet for detailed requirements. The prepared surface should have a minimum tensile strength of 250 PSI per ASTM D-7243. All concrete substrates must be checked for moisture and pass the ASTM D4263 Plastic Sheet Test prior to product application.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Elongation ASTM D-412	60%
Specific Gravity	1.4
Tensile Strength ASTM D-412	780 PSI

MIXING & THINNING

Mixing	Prior to adding the Part B activator, mix Caulk PSC Part A for 1-2 minutes to assure that any pigment or filler which may have settled is redispersed so that a uniform color is achieved. Combine the A and B Components and stir mechanically for approximately 2-3 minutes. Thoroughly scrape the sides and bottom of the container and re-mix for another 30 seconds to achieve a uniform color and consistency.
Ratio	2:1 (A:B)
Pot Life	6 hours at 50°F 2 hours at 75°F 90 minutes at 90°F

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Trowel	Using a putty knife or similar tool, scoop Caulk PSC from the container and load onto the trowel and begin applying the sealant using the loaded trowel. Spread the sealant evenly and ensure thorough coverage. After applying the sealant, use the trowel to smooth out the surface. This helps ensure a uniform seal and removes any excess sealant.
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APPLICATION PROCEDURES

General

When applying Caulk PSC in situations where the thickness approaches 2 inches, a considerable exotherm is possible. Care must be taken to ensure personal safety, as well as to allow sufficient time for the heat to dissipate and proper cure before application of any lining system. Excessive voids to be filled should be packed with backer rod to fill area before application of Caulk PSC.

Application of Caulk PSC in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading, or evening application may be required.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)

CURING SCHEDULE

Surface Temp.	Chemical Exposure	Dry to Touch	Dry Hard
50°F (10°C)	48 Hours	4 Hours	24 Hours
75°F (24°C)	24 Hours	2 Hours	12 Hours
90°F (32°C)	16 Hours	1 Hour	6 Hours

CLEANUP & SAFETY

Cleanup | Use S-14 Thinner to clean tools.

Safety | Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.

Ventilation | Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.

Caution | Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all ignition sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging | **3 Gallon Kits:**
 Part A: 2.0 Gallons (in a 5 gal. plastic pail)
 Part B: 1.0 Gallon (in a 3.5 gal. plastic pail)
15 Gallon Kits:
 Part A: 2 x 5 Gallons (in a 5 gal. plastic pail)
 Part B: 1 x 5 Gallons (in a 5 gal. plastic pail)

Shelf Life | Part A: 12 months
 Part B: 12 months

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PACKAGING, HANDLING & STORAGE

Storage	Warning: All Dudick products classified with DOT labels as either white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur. All products should be stored in a cool, dry area away from open flames, sparks or other hazards.
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Shipping Weight (Approximate)	3 gallon kits: 42.9 lbs 15 gallon kits: 195.9 lbs
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WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.