

Chem-Calk® 1200

ONE-COMPONENT; SILICONE ELASTOMERIC SEALANT

PRODUCT NAME

Bostik® Chem-Calk® 1200—A One-Component Silicone Elastomeric Sealant, Non-Sag.

MANUFACTURER

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PRODUCT DESCRIPTION

Bostik® Chem-Calk® 1200 sealant is a one-part silicone sealant capable of ±25% movement in a well designed joint. It cures to a tough, flexible rubber when exposed to moisture present in the atmosphere.

Basic Uses:

Bostik® Chem-Calk® 1200 is designed for joining and sealing a variety of construction materials such as glass, aluminum, metal alloys, stainless steel and plastics. It is used to seal curtain wall joints, mullion joints, steel and aluminum window frames, glass partitions, windows and skylights. Chem-Calk® 1200 silicone sealant may be factory or field applied to effect strong, flexible primary or secondary seals impervious to water, air and dust.

Limitations:

- Chem-Calk® 1200 sealant is not recommended for use in sealing horizontal decks, patios, driveways or terrace joints where abrasion or physical abuse is encountered.
- Chem-Calk® 1200 sealant is not recommended for use in sealing submerged joints, particularly where porous surfaces permit water infiltration to the bond surface.
- Chem-Calk® 1200 sealant is not recommended for exterior or interior structural sealing below the waterline in marine applications.
- Chem-Calk® 1200 sealant requires

Property	Value	Test Method/Note
Tool/Work Time	5-9 min.	Bostik Test Method
Tack Free Time	<30 min.	TT-S-00230C/ASTM C 679
Curing Time @ 77°F	1-3 days	Varies w/relative humidity
Flow, Sag or Slump	Nil	TT-S-001543A/ASTM C 639
Staining	None	TT-S-001543A/ASTM C 510

* Values above are not intended to be used in specification preparation.

Property	Value	Test Method/Note
Hardness (Shore A)	29	ASTM D 2240
Tensile Strength	350 psi	ASTM D 412
Adhesion in Peel	>25 piw	TT-S-001543A/ASTM C 794
Stain & Color Change	None	TT-S-001543A/ASTM C 510
Ozone Resistance	Excellent	
Joint Movement Capability	±25%	TT-S-001543A/ASTM C 719
UV Resistance	Excellent	ASTM C 793-75

* Values above are not intended to be used in specification preparation.

- atmospheric moisture to cure properly. It should not be used in totally confined or air free spaces.
- Chem-Calk® 1200 sealant is not recommended in designs that will be painted after application of the sealant. Paint films bridge the sealant but do not adhere to the sealant. The sealant should be applied after painting is completed.
 - Chem-Calk® 1200 sealant should not be applied with wet tooling techniques; using solvents, water or detergent/soap solutions.
 - Chem-Calk® 1200 sealant should not be applied to 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 with Teflon®, polyethylene or polypropylene.
 - Chem-Calk® 1200 sealant should not be applied in applications

- where appearance is critical without conducting tests to determine its compatibility and migration to the assembly surfaces.
- Chem-Calk® 1200 sealant should not be applied to concrete, marble, limestone, lead or lead coated surfaces, zinc coated metal (galvanized) and copper.
 - Chem-Calk® 1200 sealant should not be applied to 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.

NOTE: WHEN CHEM-CALK 1200 SEALANT IS USED IN REMEDIAL WORK, THE FAILED NON-SILICONE CAULK MUST BE TOTALLY REMOVED.

- k) Chem-Calk® 1200 sealant should not be applied to uncleaned or wet surfaces.

Food Status:

Chem-Calk® 1200 sealant is classified as a polyorganosiloxane polymer. Chem-Calk® 1200 sealant when properly applied and cured complies with FDA Food Additive Regulation Title 21 on Indirect Food Additive as found in part 174 and part 175 CFR 175.105.

Chem-Calk® 1200 sealant is USDA authorized for use in federally inspected meat and poultry plants. Acceptance is indicated in the "List of Proprietary Substances and Non-Food Compounds."

Certification letters are available on request for: translucent, white and bronze.

Applicable Standards:

Chem-Calk® 1200 meets or exceeds the test requirements of TT-S-00230C and TT-S-01543A for one-component sealants as Class A, Type II; ASTM C920 Standard Specification for elastomeric joint sealants as Type S, Grade NS, Class 25, use NT, G and A; and is NSF certified.

Packaging:

Chem-Calk® 1200 Silicone Sealant is packed in 10.1 fl. oz. (298 ml) high density polyethylene cartridges: 24 cartridges per carton (fits ordinary caulking guns); and in five-gallon bulk pails.

Colors:

Chem-Calk® 1200 is available in the following standard colors translucent, white, black, aluminum and bronze.

TECHNICAL DATA

In its uncured state (*see Table 1*), Chem-Calk® 1200 sealant is a soft thixotropic paste and is easily applied with conventional hand or air operated caulking guns. The tooling time (skin over time) of Chem-Calk® 1200 sealant is typically 5 to 10 minutes; but since the cure rate is determined by the amount of moisture present in the atmosphere, the tooling time will vary with the amount of humidity available at the time of application. The same conditions apply to the full rate of cure. The application rate of Chem-Calk® 1200 sealant varies slightly over a broad temperature range; it can be suc-

cessfully applied at working temperatures of -35°F to 140°F (-37°C to 60°C).

Chem-Calk® 1200 sealant may be used with bulk dispensing equipment. Bulk pumping equipment should have a minimum pumping ratio of 20:1. Chop and check pumps are recommended for maximum efficiency. Consult Bostik Technical Services or the equipment manufacturer for assistance in designing bulk pumping systems.

Chem-Calk® 1200 sealant is unaffected by sunlight, rain, sleet, snow, ultraviolet radiation, ozone and temperature extremes. Its unique weatherability characteristics enable Chem-Calk® 1200 to retain original design properties. Extensibility, tensile strength and hardness do not change significantly with aging or exposure to weather (*see Table 2*). Cured Chem-Calk® 1200 sealant will not harden with extreme cold, -65°F (-58°C) or soften with extreme heat, +400°F (+204°C). It will not become brittle, tear or crack with age and exposure to the elements. Chem-Calk® 1200 sealant will retain its flexibility indefinitely at typical construction conditions. Joints formed with Chem-Calk® 1200 can be expected to extend and compress 50% of the installation width, with no more than 25% movement in a single direction, without affecting the seal or adhesive bond. Chem-Calk® 1200 is compatible with most laminated glass, insulating glass units, acrylic and polycarbonate glazing sheets and most silicone sealants.

Acetic acid, the by-product of the curing reaction, is liberated in small amounts as a vapor. Acetic acid vapors are heavier than air and tend to settle. Blowers, exhaust fans and other ventilation equipment should allow for this characteristic.

Installation:

For proper preparatory and installation instructions of sealants, order from Bostik's literature item C94 Chem-Calk Sealants Installation Guide.

Precaution:

On contact, uncured sealant causes irritation. 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. Sealant releases acetic acid (vinegar-like odor) during cure. KEEP OUT OF REACH OF CHILDREN. Chem-Calk 1200 is manufactured for industrial use only. Use in accordance with Material Safety Data Sheet.

AVAILABILITY

Chem-Calk® 1200 Silicone Sealant is available through Bostik distributors in the United States. For the name of your nearest distributor, contact Bostik at 888-603-8558, in MA, 978-777-0100.

Shelf Life:

When stored at or below 80°F (27°C), Chem-Calk® 1200 Silicone Sealant has a minimum shelf life of one year from date of shipment from Bostik's warehouse facilities.

WARRANTY

Limited Warranty:

All statements, technical information and recommendations set forth herein are based on tests which Bostik believes to be reliable. However, Bostik does not guarantee their accuracy or completeness. The buyer should conduct its own tests of this product before use to determine proper preparation technique and suitability for proposed application. Any sale of this product shall be on terms and conditions set forth on Bostik's order acknowledgment. Bostik warrants that the product conforms with Bostik written specifications, and is free from defects. BOSTIK DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE FOR THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK BE LIABLE FOR DIRECT, CONSEQUENTIAL, ECONOMIC OR OTHER DAMAGES.

MAINTENANCE

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

TECHNICAL SERVICES

Pretested Adhesion to Substrates (PATS) Program:

The program is intended to eliminate potential field problems by pretesting Bostik's construction sealants with samples of building materials on which the sealant will be applied. The tests 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 that affect field success.

Test samples or coupons 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. Contact your Bostik representative.

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