



Sil-A 700

Siliconized Acrylic Latex Caulk

Technical Data Sheet

DESCRIPTION

BONDAFLEX Sil-A 700 is a one-component, premium quality, low shrinkage, non-sag, multi-purpose, siliconized acrylic caulk. Meets the requirements of ASTM C-834 and California Air Resources Board 2003 requirements for Volatile Organic Compound content. USDA compliant for use in meat and poultry areas.

WHERE TO USE

Construction Application

- Compatible with extruded and expanded polystyrene insulation board
- Perimeter sealing of windows, doors and skylights
- Filling gaps between wall and wood
- Counter tops
- Bathroom fixtures
- Vanities
- Plumbing
- Venting
- Wood molding

Structures

- Buildings
- Schools

Location

- Horizontal and vertical
- Interior and exterior
- Above grade

Substrates

- Concrete, masonry, brick, aluminum, wood, natural stones, glass, plaster, dry wall and ceramic

FEATURES

- One-part
- Siliconized
- Water-based
- Paintable and sandable
- Non-staining and non-bleeding
- Tack free surface
- Superior gunning and tooling
- Primerless adhesion

BENEFITS

- Ready to use, reducing labor
- Optimum adhesion
- Easy clean-up
- Multiple color and texture options
- Improved aesthetics
- Low dirt pick-up
- Speed and ease of application
- Speeds application

TYPICAL PROPERTIES

	Cured (28 days @ 77°F (25°C) and 50% RH)		TEST METHOD
	Pigmented	Translucent	
Hardness, Shore A	40	30	ASTM C-661
Elongation at Break, %	175	700	ASTM D-412
Accelerated Weathering	passes	passes	ASTM C-793
Staining	passes	passes	ASTM C-510
Tensile Strength, psi (MPa)	180 (1.24)	50 (0.34)	ASTM D-412
Uncured			
Tack-Free Time	20 min.	20 min.	ASTM C-679
Extrusion Rate g/min 1/8" orifice @ 50 psi	800	230	ASTM C-1183 modified
Slump of Sealants	nil	nil	ASTM D-2202
Volatile Organic Content:	0.82 % by wt.	0.92% by wt.	
	19 g/L	16 g/L	
	0.15 lbs/gal	0.14 lbs/gal	
Service Temperature	0° to 180° F		
	-17° to 82.2°C		

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

PACKAGING

- 10.1 fl. oz. (300 ml) disposable cartridges
- 4.5 gal (17 L) in a 5 gal pail

Special packaging available upon request – ask your local Representative for more information.

STORAGE/SHELF LIFE

When stored in the original, unopened containers at or below 75°F (24°C), shelf life is one year. A product skin may form in pails and drums, remove prior to use.

Protect from freezing.

COLOR

Black, Bronze, Gray, Translucent and White. Custom colors are available upon request – ask your local Representative for more information.

EXPANSION JOINT DESIGN

1. The number of joints and the joint width should be designed for a maximum of + 10% of joint width at time of installation.
2. The depth of the caulk should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13mm) and the minimum is 1/4 inch (6mm).
3. To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion.
4. Closed cell backer rod should be 25% larger than joint width; do not compress more than 40%.

SURFACE PREPARATION

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination and laitance.

NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two rag wipe method using either xylene or an approved commercial solvent. Allow solvent to evaporate prior to caulk application.

PRIMING

BONDAFLEX SIL-A 700 is designed to obtain adhesion without the use of a primer. Certain substrates may require a primer. Test by applying the caulk to confirm results and proposed application methods. Contact Technical Service for additional information.

APPLICATION

Expansion Joint

1. Ready to use, apply using professional caulking gun or dispensing equipment. Do not open product container until preparation work has been completed.
2. Apply caulk using consistent, positive pressure to force caulk into the joint.
3. Tool caulk to create a concave joint shape and maximum adhesion. Dry tooling is recommended. **DO NOT** use soapy water or other liquids when tooling.

CLEAN UP

Remove excess caulk from substrate while uncured using soap and water. Cured caulk may be removed by mechanical measures.

LIMITATION

- Do not allow caulk to come in contact with solvent during cure.
- Do not apply in exterior application if rain or freezing is expected within 24 hours.
- Do not use on horizontal traffic bearing applications.
- Do not use in immersed applications.
- Apply caulk when the temperature is above 40°F (4°C) and below 120°F (49°C).
- Maximum depth of caulk must not exceed 1/2 inch; minimum depth 1/4 inch.
- Do not apply to wet substrates.
- Do not apply when vapor transmission may cause sealant bubbling.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age 6 months before application.

FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. **SEEK IMMEDIATE MEDICAL ATTENTION.** In case of skin contact, wash affected areas with soap and water. If irritation persists, **SEEK MEDICAL ATTENTION.** Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if material is swallowed, **SEEK IMMEDIATE MEDICAL ATTENTION.** Refer to Material Safety Data Sheet (MSDS) for further information.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Use only with adequate ventilation. Keep container closed. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. **DO NOT** take internally. Use impervious gloves and eye protection.

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