



TECHNICAL DATA SHEET

100% SILICONE R.T.V. SEALANTS

Marine Grade

30- Year Warranty

(Meets Federal Specifications TT-S-00230C & TT-S-001543A
& Military Specification MIL-A-46106)

PRODUCT

DESCRIPTION:

A one-part high-performance universal grade R.T.V. silicone sealant. of high modulus and good tensile strength. Fully waterproof, with a long lasting and powerful caulking formula which provides a tight weather-resistant elastic seal for glass, metal and ceramic surfaces; can be applied at temperatures below freezing.

BASIC USES:

Ideal for non-working joints such as glazing certain wall applications; will form a permanent water-tight and weather-proof bond to many surfaces, such as glass, ceramic, metals and plastics.

PRODUCT

ADVANTAGES:

- * 100% silicone rubber
- * 25% movement capability
- * Exterior or interior use
- * Super long life expectancy
- * Excellent adhesion to non-porous building materials
- * Thirty year warranty
- * 100% waterproof
- * 100% permanent adhesion
- * Will not crack, crumble or peel
- * Mildew, mold and moisture resistant
- * FDA approved.

TECHNICAL DATA

Colors:

White (SS-887/TP-893)
 Clear (SS-888/TP-892)
 Black (SS-890/TP-894)
 Bronze (SS-889)
 Aluminum (SS-891)

Sizes: 10.3-oz. cartridges
70 ml. tubes

Drying

Time:

Tack free: 10-20 minutes
To cure: 24 hours

Theoretical

Coverage:

Approximately 34 linear feet of 1/4" bead per 10.3-oz. cartridge, or 7 linear feet of 1/4" bead per 70 ml. tube.

TYPICAL PROPERTIES

As Supplied:

Specific gravity at 25°C (77°F)	1.04
Extrusion rate (1/8 inch orifice, 90 psi air pressure), g/min.	400
Flow rate (sag or slump on 1/8 inch x 4 inch bead)	Nil
Tack-free time at 25°C (77°F) and 50% RH, min.	10 to 20
Cure time at 25°C (77°F) and 50% RH, hours	24

As Cured:

ASTM D2240	Durometer hardness, shore A, points	25
ASTM D412 Die C	Tensile strength, mpa (psi)	2.2 (325)
ASTM D412 Die C	Elongation, percent	550
ASTM D746	Brittle point, °C (°F)	-65 (-80)
ASTM D2137A	Volume coefficient of thermal expansion, 0 to 100° C (32° to 212° F)	9.3 x 10 ⁻⁴
	Thermal conductivity, cal/(cm) (°C) (sec)	0.45 x 10 ⁻³
	BTU per (ft) (°F) (hr)	0.11
	Lap shear adhesion, strength, psi	
	1/16-inch lap joint thickness	192
	1/8-inch lap joint thickness	113
	1/4-inch lap joint thickness	67
	3/8-inch lap joint thickness	44
	1/2-inch lap joint thickness	37

Surface Preparation: Surface must be free of dust, dirt, grease and mildew. Remove all loose or badly cracked sealant and paint.

Mildewed Surfaces: Any existing mildew on the surface must be completely killed and removed prior to the application of new silicone. To remove mildew scrub surface with a long-handled brush and a mixture of one quart of household bleach and three quarts of warm water. Rinse completely and let dry.

Previously Caulked Surfaces: It is critical to remove as much old sealant as possible before applying the new silicone, especially if it is cracked, eroded or pulled away from the joint.

Application Instructions: For best results, follow these steps.

- (1) Clean surface as recommended.
- (2) Cut tip off cartridge to desired bead size (1/4" is recommended).
- (3) For smooth seal, hold caulk gun at 45° angle and push sealant ahead of nozzle.
- (4) Complete tooling before "skin" forms (five to ten minutes). Use a spatula or paddle. If masking tape is used to mask an area, it must be removed before the tack-free skin forms.
- (5) Remove excess sealant with *LANCO® Mineral Spirits MS-107*. Cured sealant can be removed with a sharp blade.

Storage and Shelf Life: When stored in original, unopened container at or below 77°F (25°C), *LANCO® 100% Silicone RTV Sealants* have a shelf life of one year. Containers should be kept sealed when not in use. After a container has been opened, a plug of cured material may form in the nozzle or tube tip during storage.

Caution: Direct contact with uncured sealant irritates eyes and may irritate skin. Overexposure to vapors may irritate eyes, nose and throat.

Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for fifteen minutes. Get medical attention. In case of skin contact, remove from skin and flush with water. Sealant releases acetic acid (vinegar-like odor) during cure. Keep out of reach of children.

Limitations: *LANCO® 100% Silicone RTV Sealants* are not recommended for use on concrete, marble, oily woods, limestone, brick, lead surfaces and below water-lines. This sealant adheres well to itself, but not to other dissimilar sealants. Paint film will not stretch with elastomeric silicone sealants; therefore painting of silicone will be unsuccessful.

Cleanup: Excess uncured sealant can be cleaned with sealant with *LANCO® Mineral Spirits MS-107*. Cured sealant can be removed with a sharp blade.

Limited Warranty: Satisfaction guaranteed for thirty years. If product cracks, peels or separates while you own your home during period of guarantee when used as directed, return sales receipt and used container to *LANCO® Mfg. Corporation*, Customer Service Dept., Urb. Aponte #5, San Lorenzo, PR 00754 for product replacement. Seller will not accept liability for more than product replacement or purchase price.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.

M.S.D.S.: Available upon request.