

## INNERBOND C-970 GMV\* SILICONE

\*Glass, Metal and Vinyl Construction and Glazing Sealant

A strong, high-performance, neutral cure, 100 % RTV silicone sealant. This formulation offers impressive unprimed adhesion with a wide range of materials. The unique non-acetic chemistry will not corrode or react with common building materials and most I.G. units. Tack-free in 15 minutes and cures fast without any strong, offensive odor. Cured sealant stays rubbery from -40°F (-40°C) to +250°F (+121°C) and is virtually unaffected by sunlight, ozone and weather or temperature extremes. Ideally suited for glazing & back bedding applications, weather proofing & perimeter sealing of doors, windows & skylights, sealing roof flashings, seams & gutter systems, sealing tile, sinks, baths & showers, and more.

### IMPORTANT FEATURES INCLUDE:

- Excellent weatherability - no deterioration with extended weather, U.V. and ozone exposure.
- Good flexibility and elasticity, even in temperatures to -40°F (-40°C).
- Elastomeric.
- Moderate to high recovery.
- Excellent moisture and vibration resistance.
- All-temperature gunnability - consistency is unchanged from -35°F to +140°F (-37°C to +60°C), permitting the sealant to be applied in any season.
- Rapid tack-free and cure times.
- Easily worked and tooled.
- Virtually odorless during cure.
- Noncorrosive, neutral cure silicone will not corrode or react with common building materials.
- Compatible with reflective glass, most laminated glass, most insulated glass (I.G.) units and acrylic and polycarbonate glazing sheets.
- Conforms with TT-S-001543A, TT-S-00230C and ASTM C-920-79

### USES

Typical application for Innerbond C-970 GMV Silicone include:

- Back bedding vinyl, metal and wood windows, as well as cap, toe and heel bead applications.
- Perimeter caulking of windows, skylights and doors.
- Sealing and weatherproofing flashing, siding, gutter/drain systems, and perimeter joints.
- Sealing marine cabins, ports, hatches and deck fittings.
- Caulking baths, showers and sinks.
- Electrical insulation sealing and anchoring electrical lead wires.
- Bonding gaskets in heating and refrigeration units.
- Bonding and sealing appliance parts, sign letters, nameplates/signs and screwless brackets.
- Formed-in-place gaskets for pumps, compressors and gear boxes.
- Adhering auto and appliance trim, including metal, fabric and fabric-backed plastics.
- Sealing windows in oven doors and flues on gas appliances, flanged pipe joints and access doors.
- Sealing trailers and truck cabs.
- Creating antiabrasion coatings.
- Sealing and encapsulating electrical connections.
- Sealing conduits and pipes through brick and masonry.
- Filleting and caulking joints in sheet metal stacks, duct work and equipment housing.

## TYPICAL PROPERTIES

AS SUPPLIED			
Sag or Slump	Nil	Tack-free Time at 77°F (25°C), 50% RH	15 minutes
Tooling Time	4- 8 minutes		
As cured - after 7 days at 77°F (25°C) and 50% RH			
Durometer Hardness, Shore A, points	20	Ultimate Tensile Strength, psi (MPa)	195
Tear Strength, ppi (N·m)	22	Elongation, percentage	500
Staining	None	Weatherability (10,000 hours in Quv. Weatherometer)	No change in color; remains elastomeric

## LIMITATIONS

Innerbond C-970 GMV Silicone is not recommended for use in below-grade applications, in underwater applications, or in horizontal joints where physical abuse or abrasion is likely to be encountered. This includes:

- Totally confined spaces where sealant cannot cure because of a lack of atmospheric moisture.
- Surfaces that will be painted. The paint film will not stretch with the extension of the sealant and may crack or peel.
- Glass-to-glass butt joints sealed with clear glazing sealant that may contain small amounts of air trapped during the packaging and/or application of the sealant. Appearance standards should be established and agreed upon prior to sealant application.

## HOW TO USE

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

Metal, glass and plastic surfaces should be cleaned by mechanical or solvent procedures. Detergent or soap and water treatment are not acceptable. In all cases where used, solvents should be wiped on and off with clean, oil and lint free cloths.

**CAUTION:** When using flammable solvents, keep away from heat, sparks, and open flames. Use only with adequate ventilation. Avoid prolonged breathing of vapor and prolonged or repeated skin contact. Always follow solvent container label instructions.

**NOTE:** Prior to general job use, place a bead of sealant on the substrate material to test adhesion.

## APPLICATION

Install back-up material or joint filler, setting blocks, spacer shims and tapes as specified. Apply Innerbond C-970 GMV Silicone sealant in a continuous operation using a positive pressure adequate to properly fill and seal the joint. Tool or strike the Innerbond C-970 GMV Silicone sealant with light pressure to spread the material against the back-up material and the joint surfaces. A tool with a concave profile is recommended to keep the sealant within the joint.

When glazing, tool the sealant applied at the sill so that precipitation and cleaning solutions will not pool.

Innerbond C-970 GMV Silicone sealant can be applied at outdoor temperatures as low as -35°F (-37°C) provided that surfaces are clean, dry and frost-free.

Excess sealant should be cleaned from glass, metal and plastic surfaces while still uncured using a commercial solvent such as xylol, toluol or methyl ethyl ketone. **NOTE:** See "Preparatory Work" regarding the use of cleaning solvents. Should sealant accidentally contact adjacent porous surfaces, the excess sealant should be allowed to progress through the initial cure or set-up. It should then be removed by abrasion or other mechanical means.

## CAUTION

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. Keep out of reach of children.

## **STORAGE AND SHELF LIFE**

When stored in original, unopened containers at or below 90°F (32°C), Innerbond C-970 GMV Silicone sealant has a shelf life of 12 months from date of shipment.

For best results, keep Innerbond C-970 GMV Silicone sealant in tightly closed containers when not in use.

## **PACKAGING**

Innerbond C-970 GMV Silicone sealant is available in a 10.1 oz. caulking gun cartridge with a 4" long removable nozzle, 5-gallon pails, and 55 gallon drums.

## **WARRANTY INFORMATION**

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since Inland, Inc. cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of its products for a particular use or purpose.

Thorough testing of our product on any proposed use should be conducted prior to each application. It is the responsibility of the consumer to evaluate the performance of our product in each given application. Likewise, if the manner in which our products are used requires governmental approval or clearance, it is the user's responsibility to obtain it.

Inland, Inc. warrants only that each product will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other expressed or implied warranties. The user's exclusive remedy and Inland, Inc.'s sole liability is limited to replacement of any product shown to be otherwise than as warranted. Inland, Inc. will not be liable for incidental or consequential damages of any kind.

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