

# PURfect Silicone - 722

## Neutral Cure Sealant / Adhesive

# Product Data Sheet

April 2016

### Product Description

InnoStar Solution's Silicone is a low-modulus, universal sealant/adhesive that is used in both weather sealing and structural glazing applications. The neutral cure, high performance silicone is formulated to exhibit superior adhesion and flexibility to a wide variety of substrates including: polycarbonate, PVC, glass, vinyl, flouropolymer and powder coated paints, aluminum, stainless steel, galvanized steel, ceramic tile, wood, FRP, marble, stone, EIFS, brick and laminate substrates. 722 is 100% silicone that can accommodate 50% movement in both extension and compression, is highly weather resistant, durable and has excellent recovery after cycling. Meets or exceeds the requirements of the following specifications: ASTM C920 Type S, Grade NS, Class 50, Use A, G, M, O; ASTM C1184 Structural Silicone Sealants Type S, Use G & O; U.S. Federal Specifications TT-S-001543A AND TT-S-00230C; Canadian General Standards Board CGSB-19.13-M87 Sealing Compound.

### Technical Data

Specific Gravity	1.40
Colors	White, Aluminum-Gray, Other colors available upon request
Work Life @ 75°F & 50%RH	20-30 minutes
Cure Rate (1/4" deep section) @ 75°F & 50%RH	3-4 days
Sag	Nil
Ultimate Tensile Strength (ASTM D412)	341 psi
Tensile at 50% Elongation (ASTM C1184)	47 psi
Tensile at 100% Elongation (ASTM C1184)	73 psi
Tear Strength (ASTM D624)	77 ppi
Ultimate % Elongation (ASTM C961)	715%
Shear Strength @ 1/8" thickness	122 psi
Peel Strength (21 day cure @ 75°F 50%RH)	57 pli
Service Temperature Range	-55° to 300°F
Movement Capability (ASTM C719)	+/- 50%
UV Resistance (UL723, ASTM E814)	Excellent
Fire Endurance	2 hours (with backer)
VOC Content (C1454)	20 grams/liter

\*Typical values. Not for use in development of specifications

### Recommendations for Use

#### Surface Preparation:

For reliable, repeatable and durable results, adhesives and sealants must be applied to clean, dry, sound, and frost-free surfaces. For high strength bonds, surface contaminants such as paints, oils, oxide films, mold release agents, dirt, and the like, must be completely removed. Remove old sealants or adhesives.

#### Application:

- Better application temperatures: 40°F - 120°F
- For best performance, sealants and adhesives should be applied to a joint at the midpoint of its designed expansion-contraction cycle
- Place nozzle into joint and fill joint entirely. Keep the nozzle in the sealant and maintain a consistent, continuous flow of sealant to minimize air entrainment.
- Tool sealant to minimize air entrainment and to assure contact with both sides of the joint.

#### Clean-up:

Excess adhesive should be dry-wiped from all surfaces and tools while still uncured. Isopropyl Alcohol (IPA) on a solvent-dampened clean rag provides good results on most substrates. Cured adhesive is difficult to remove without damaging the surface it was applied to and generally must be mechanically removed.

#### Limitations:

- This sealant is not paintable. If your application requires a paintable sealant, please contact your representative at InnoStar Solutions, Inc.
- Do not apply on frost-covered surfaces.
- Not recommended for use underwater or when in continuous contact with water.
- Not recommended on mirrors, masonry, stone, lead, copper or brass.
- The user should always perform relevant testing, as InnoStar Solutions does not recommend PURfect Silicone - 722 as fit for a particular use.
- Some material may require a primer
- Tooling agents such as water, soap, or detergent solutions are not recommended.
- Shelf life of 12 months when stored at temperatures below 80°F.

# PURfect Silicone - 722

## Neutral Cure Sealant / Adhesive

### Features

- Durable and weather resistant
- Exceptional UV stability
- Permanently elastic
- +/- 50% movement capacity
- Thermally stable from -45°F (7.2°C) to 300°F (149°C)
- Low VOC-significantly lower than the US Green Building Council's Leadership in Energy and Environmental Design (LEED) program's requirements.
- Excellent gunnability and workability
- Non-sag
- Broad application temperature range
- Meets ASTM C920

### Contact Information

For product prices, availability, order placement, or for additional information, contact our customer service at [info@innostarsolutions.com](mailto:info@innostarsolutions.com) or call (877) 250 – 1978.

### Precautionary Information

Some applications may not be compatible with this product. Testing suitability for intended application before proceeding with full application is recommended. Use with adequate ventilation. In case of contact with eyes, lips, or mouth: flush thoroughly with water. Inhalation of vapor during application and cure may cause slight eye or throat irritation. If irritation persists, consult a physician. Please see SDS for additional information. **KEEP OUT OF REACH OF CHILDREN.**

### Disclaimer

InnoStar Solutions MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the InnoStar Solutions product is fit for a particular purpose and suitable for user's method of application. Given the variety of factors that can affect the use and performance of an InnoStar Solutions product, many of which are uniquely within the user's knowledge and control, it is essential that the user evaluate every product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

### Limitation of Liability

If any goods provided by InnoStar are proved to be defective, THE EXCLUSIVE REMEDY, AT InnoStar Solutions' OPTION, will be to replace the defective product or to refund the purchase price. InnoStar Solutions shall not be otherwise liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.