

Opti-Bead™ PIB insulating glass sealant is a 100% solids high performance sealant based on polyisobutylene polymer containing internally dispensed spacers composed of glass beads of controlled size.

Basic Use

Used as the primary seal on insulating glass units while providing the main vapor seal between the glass and metal spacer. Internally dispersed spacers act as built-in compression stops facilitating optimum sealant thickness. Opti-Bead may be used with most structural secondary sealants where design calls for chemically curing sealants as the adhesive and secondary seal.

Packaging & Sizes

Opti-Bead is available in bulk (slug form) for application by various type extruders.

- Slugs: 7.5" D x 9.5" H (191 mm x 241 mm)

Storage Conditions

Store in original package, indoors, away from rain and out of standing water.

Environmental Considerations

Non-hazardous under normal use for handling and waste disposal.

Technical Services

Your Quanex Building Products Representative, in conjunction with your Quanex Building Products Technical Service Group, can provide in-plant training and assistance with special applications.

Availability/Cost

Availability and cost can be obtained from your local Quanex Representative or by calling our Customer Service Center. For more information call Truseal, a Quanex Building Products company: in the U.S. 888-910-5280; in Canada 888-794-4453.

Health & Safety

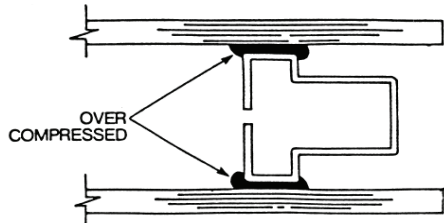
For all Quanex products, and for other product used in conjunction with Quanex products, users must follow individual product labels and Material Safety Data Sheets for warnings and precautions prior to opening containers and during use and storage.

Shelf Life

Two years from date of manufacture.

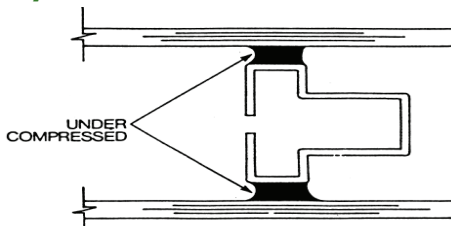
Performance	Norm
Moisture Vapor Transmission Rate 0.13 g/m ² /d	ASTM F 1249
Volatile Fogging Passes	ASTM E 2189 CAN/CGSB 12.8
Argon Permeance & Permeability 3 cc/100 in ² /d (0.031" film) 120 cc mil/100 in ² /d	ASTM D 1434
Weight per Gallon (Specific Gravity) Black: 9.10 lb/U.S. gal (1.07 g/cc) Gray: 9.80 lb/U.S. gal (1.18 g/cc)	
Hardness (Consistency) 55-65	ASTM D 5
Tensile Strength Black: 50 psi Gray: 35 psi	TST 680 B
Low Temperature Flexibility 1/2" manderl passes -40° F	ASTM D 3111
Sealant Thickness After Compression 0.010" (0.25 mm)	
Note: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate value and are not part of the product specification.	

Primary Seal Too Thin



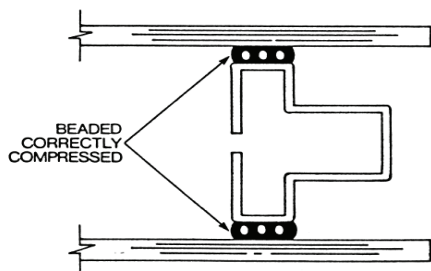
- Sealant section too thin.
- Unwanted sealant visible on unit sightline.
- Unit exhibits decreased flexibility.

Primary Seal Too Thick



- Sealant section too thick.
- Greater diffusion area compromises moisture and gas barrier properties.
- Unit possibly over-tolerance.

Primary Seal With Opti-Bead



- Optimum sealant thickness.
- Neat sightline appearance.
- Optimum degree of flexibility.
- Minimizes transmission of moisture and gas.

Key Features Summary

- Opti-Bead has excellent adhesion to glass and metal
- Opti-Bead resists over compression of PIB sealant enhancing unit performance
- Non-fogging (100% solids)
- Available in Black and Gray
- Necessary flexibility through a wide temperature range to compensate for thermal movement of the insulating glass unit
- Opti-Bead resists degradation from ultraviolet light and oxidation
- Opti-Bead features extremely low moisture vapor and argon gas transmission rates

Applicable Standards

Units pass the highest level of ASTM E 773/774 and CAN/CGSB 12.8.

Glazing Compatibility and Design Recommendations

In general, materials such as hot-applied sealants, silicones, glazing tapes and solvent acrylics are compatible. However, it is recommended that glazing materials be tested for compatibility. Fabricated units shall be glazed in accordance with GANA (Glass Association of North America) and IGMA (Insulating Glass Manufacturers Alliance) recommendations. Please check with your Quanex Representative for specific glazing recommendations.

Warranty

See Truseal warranty certificate.

Opti-Bead® is a registered trademark of Truseal technologies, Inc.

Quanex recommends you visit www.Quanex.com and register to ensure you have the most current updates to this data and all other Quanex sales and technical materials.



ISO 9001:2008,
Certificate Registration 10001512 QM08