ISOL
COMMERCIAL SEALANTS

ISOL-500 Neutral Weatherproof Silicone Sealant – High Performance

Product Description

ISOL-500 Neutral Weatherproof Silicone Sealant is a one-part, durable, neutral- cure, architectural grade sealant. with excellent adhesion for use on a wide variety of materials in new or renovated weatherproofing applications. It cures into an elastic rubber body by reacting with moisture in the air to form an effective seal. Excellent weather resistance and load-bearing interface ±50% telescopic displacement.

Technical Data

Project		Technical Indicators
Appearance		Fine, even paste
Sag	Vertical Placement, mm	≤3
	Horizontal Placement	Not deformed
Shore Hardness		≥25
Tack Free Time, min (Temperature 25℃, Relative Humidity 50%)		≤45
Working Time, mins		20
Elongation at Break %		430
Tensile Modulus MPa	23℃	>0.4
	-20℃	>0.6
Service Temperature ℃		-50 to 150

ISOL Sealants inc. 33 Shore Breeze Dr. Toronto, ON, M8V 0G1

Packing

Packing	Color	Quantity/carton
590 ml	White, Black, Charcoal, Limestone	20 sausages

Safety and storage

- Keep contents out of reach of children. In case of contact with eyes, please rinse eyes with plenty of water and seek medical advice as soon as possible.
- Store in a cool, dry, non-humid place to ensure long shelf life.

Special characteristics

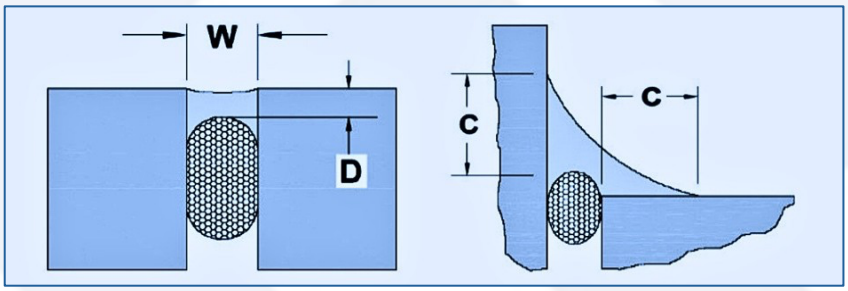
- Excellent adhesion to non-porous construc3on materials. no need to use primer for most building materials such as glass, coated glass, painted metal.
- Neutral curing, suitable for most building materials without adverse reac3ons or corrosion.
- Excellent UV, weathering, and high temperature resistance, forming a strong and elas3c silicone rubber after curing, not affected by rain, snow.
- High movement capability and permanent flexibility.

Warranty

Isol-500 has 5 years warranty.

Typical application

ISOL-500 Silicone Weatherproofing Sealant is a specified, premium performance weather sealing product specifically designed for general glazing and weather sealing in curtain wall, window door and building facades. Primeless adhesion to many substrates and finishes, including but not limited to: Outside building (stone and marble material) EIFS, glass, window door, polycarbonate, vinyl, numerous plastics, treated and untreated wood, fluoropolymer and powder coated paints, conversion-coated and anodized aluminum, brick, ceramic and porcelain materials and concrete. Some finishes or substrates may require a primer.



Expansion/Control Joints

1. Minimum dimensions:

Width (W) and Depth (D): At least 1/4” x 1/4” (6 mm x 6 mm).

2. Depth recommendations:
   - For joints less than 1/2” wide: Depth (D) may equal the width (W).
   - For joints between 1/2” and 1” (13 mm to 25 mm): Depth (D) should be approximately half the width (W).
   - Maximum depth (D) is 1/2” (13 mm).
3. For Joints Wider Than 1” (25 mm):

Contact Isol Sealants Inc Technical Services.

Window Perimeter (Fillet/Angle Beads)

1. Contact Area (C):

Minimum contact area: 1/4” (6 mm) onto each substrate.

2. Additional Measures:

Use a backer rod or bond breaker tape to allow for proper release at the heel of the angle.

Joint backing

Closed cell or reticulated polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure excellent contact of sealant with joint walls when tooling. Where depth of joint will prevent the use of backer rod, an adhesive-backed polyethylene tape (bond breaker tape) should be used to prevent three- sided adhesion. All backing should be dry at the time of sealant application.

Limitations

- Do not apply over damp or contaminated surfaces.
- Always apply sealants using adequate ventilation.
- Not intended for continuous water immersion.

Substrate preparation

- The surfaces must be sound, clean, and dry.
- Contact surfaces should be free of loose dirt, dust, oils, and any other contaminants.
- Isol Sealants suggest that air temperatures be 40 °F (5 °C) or above before applying any sealant.

Availability

Immediately available at info@isolsealants.com // +1 (437) 991-4105