



Technical Data Sheet

Antas-169 Structural Silicone Sealant

One-part, Silicone Sealant for Structural Bonding

Description

antas-169 is a one-part, neutral cure structural silicone sealant. It is designed and vigorously tested for structural bonding and sealing of glass curtain wall system with frameless design. It has high strength, excellent weatherproof ability and temperature durability. In a properly designed structurally glazed joint, the sealant is strong enough to support glass and other panel materials under high wind load.

Features

- Neutral cure, no pollution or corrosion on metal, coated glass, concrete, marble and other building materials.
- Excellent performance with over 25 years' service life under general environment.
- Excellent weatherability virtually unaffected by sunlight, rain, snow, ozone and temperature extremes of -40°C to 150°C.
- Compatibility with other neutral silicone sealants.
- High performance structural glazing and weather sealing from a single product.

Applications

- Structural glazing for frameless façade.
- Structural attachment of many panel systems.
- Sealing for exterior wall with high weatherproof requirements

Typical Properties

Test Method	Property	Unit	Result
ASTM C 639	Flow	mm	0
ASTM C 603	Extrudability	s	7.1
ASTM C 679	Tack-free time	h	2
ASTM C 1135	Tensile adhesion strength 21 days (23°C)	MPa	0.98
	Tensile adhesion strength 21 days and followed by 88°C for 1 hour	MPa	1.03
	Tensile adhesion strength 21 days and followed by -29°C for 1 hour	MPa	1.03
	Tensile adhesion strength 21 days and followed by water immersion at standard conditions for 1 week	MPa	1.24

	23 °C and 50% relative humidity for 21 days and followed by UV exposure for 5000 hours	MPa	1.23
ASTM C792	Loss of mass	%	0.6
ASTM C 661	Hardness	Shore A	31.5

Approvals

- ASTM C1184
- SINGAPORE GREEN BUILDINGPRODUCT CERTIFICATE
- SIRIM CERTIFICATION IN MALAYSIA

Colors

Black, White, Grey, Custom color

Packaging

300mL cartridge, 24pcs/carton
590mL sausage, 20pcs/carton

Substrate preparation

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles.

Adhesion and cohesion test is recommended before application. The primer is usually not a required when applying antas-169 silicone structural sealant. But to enhance the bonding performance, the primer antas-201 primer will be a plus.

For more detailed advice and instructions please contact us.

Limitations

- In structural applications without prior review and approval by your local sales application engineer
- On building materials that bleed oil, plasticized or solvent, to materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets, or tapes or bituminous below-grade waterproof and asphalt-impregnated fiberboard.
- In totally confined spaces.
- When substrate surface temperature is over 45 °C or below -5 °C.
- On wet surface or continuously immersed in water.
- On the surface contacted with food directly.
- For continual high pressure and temperature.
- When the sealant is intended to be painted.

Storage

- 12 months from the manufacturing date under 30°C in the original unopened package.
- Keep in a shady and well-ventilated space.
- Keep away from children.