Antas-169 One-Component Structural Silicone Sealant

antas-169

antas-169 is one-component, neutral curing silicone structural sealant. It is specially designed for structural glazing in glass curtain wall. It has high performance of structural bonding and excellent weather ability. It can be widely used in broad temperature range, and is cured by the moisture in air to form an elastomeric rubber ensuring tight structural bond.

Features:

1. Neutral curing, no pollution or corrosion on metal, coated glass, concrete, marble and other building materials
2. Excellent adhesion to most building materials
3. Excellent weathering performance with over 25 years' service life under general environment.
4. Excellent performance within broad temperature range. The cured sealant will not turn brittle, hardened or cracked at -50℃. It will not turn soft or deteriorated, and will keep good strength and flexibility at 150℃.
5. Compatibility with other neutral silicone sealants and other accessory facilities of structural glazing

Package:

300mL cartridge
590mL sausage

Color:

Black,
White,
Grey,
Customized

Shelf life:

12 months from the manufacturing date under 27 ℃

Standard:

GB 18583-2008

GB 16776-2005

Applications:

1. Structural bonding of glass curtain wall.
2. Structural bonding of other curtain walls.
3. Bonding for industrial purpose or other buildings.

Limitation:

antas-169 should not be applied:

1. On the surface of substrate that bleeds oil, plasticizers or solvents and so on (such as impregnated wood).
2. In totally confined spaces.
3. When substrate surface temperature beyond 40℃ or below 10℃.
4. In continuous water immersion or on the surface with fog, or wet surface, or in continuous wet place
5. On paint surface.

Technical service:

Technical details are available in Jointas for customers.
Adhesion test, compatibility test and stain test are available before sealant application.

广州集泰化工股份有限公司
A：广州市黄埔区科学城南翔一路62号C座
T：020-8557 6000　F：020-8557 7727　www.jointas.com

Priming:
Priming is usually required when using antas-169. Moreover, sealant adhesion should always be tested in advance to determine the need for a primer. If required, primer should be applied in a thin film to the joint surface by using a clean lint-free cloth and allowed to dry before sealant application.

Equipment cleaning:
When not being used it is recommended that the dispensing equipment should be purged either with the uncatalyzed base, or flushed with a suitable solvent. If cured sealant has built up inside the equipment it is recommended to flush the equipment for an appropriate time. The solvent dissolves cured silicone sealant and provides optimum cleaning performance.

Transport and storage:
This product is flammable but not explosive, and can be delivered by normal means of transportation. The products must be stored under 27℃, in the cool and dry place.

Joint design:
The joint design of the structural sealant should be done by professional persons. For structural purpose, the substrate samples with accessory materials and design blueprint should be sent to Jointas for tests before the project starts.

Curing and maintenance:
antas-169 begins curing when it contacts with the moisture in air. The tack free time is about 30-60 minutes. It generally takes 21 days for fully-cure. In the beginning of using the sealant, please remain the sealant places fixed and flat. Solvent can be used to clean the fractured sealants and then fill up with the new sealants with same color and quality.

Safety:
It is nontoxic after entirely cured. Avoid contacting eyes when operating. If happened, rinse opened eye under running water for several minutes. During the curing process, sealant will release a small number of organic molecules. Construction should ensure good ventilation. If necessary, take protective measures. Please keep children out of reach.

Technical Parameters(GB 16776-2005)

Number	Test items			Standard Ordain	Measured value
1	Appearance			Even, exquisite paste, No bubble, no skinning, no gel	Even, exquisite paste, No bubble, no skinning, no gel
2	Sag degree		Horizontal，mm，	No deformation	No deformation
			Vertical，mm，	≤3	0
3	Extrudability, s			≤10	2
4	Tack free time，h			≤ 3	1
5	Hardness, Shore A			20~60	41
6	Heat deterioration		Mass loss, %	≤10	4
			Crackle	No crackle	No crackle
			Powdering	No powdering	No powdering
7	Tensile adhesion	23℃	Tensile strength, MPa	≥0.60	1.28
			Damage area of bonding, %	≤5	0
			Elongation at largest tensile strength, %	≥100	325
		90℃	Tensile strength, MPa	≥0.45	0.83
			Damage area of bonding, %	≤5	0
		-30℃	Tensile strength, MPa	≥0.45	1.97
			Damage area of bonding, %	≤5	0
		After water immersion	Tensile strength, MPa	≥0.45	0.93
			Damage area of bonding, %	≤5	0
		After water & UV-radiation	Tensile strength, MPa	≥0.45	1.19
			Damage area of bonding, %	≤5	0
8	Tensile modulus	23℃	Elongation is 10%, kPa	---	132.5
			Elongation is 20%, kPa	---	338.0
			Elongation is 40%, kPa	---	561.2