

antas-169-25 Structural Silicone Sealant



Base

Neutral Silicone

Color

Black

Grey

Packaging

300mL/cartridge

590mL/sausage

Net weight

398g/cartridge

791g/ sausage

Shelf life

12 months

Storage

Store in the cool and dry place, under 27°C

Description

antas-169-25 is a one component, neutral curing, silicone structural sealant, specifically designed for use with construction of glass curtain walls. It exhibits high modulus, high strength and high elasticity, resulting in excellent adhesion and weather resistance. Once cured, antas 169-25 provides long-term structural adhesive sealing.

Features

- Easy to use with good tooling and non-sagging properties from 5°C to 45°C
- Excellent adhesion to most building materials
- Excellent weather durability, resistance to UV and hydrolysis
- Wide range of temperature tolerance, with good elasticity within -50 to 150°C
- Compatible with other neutrally cured silicone sealants and structural assembly systems

Properties	Item	Result
Tested as	Slump	0
ETAG 002:2012	Tack free time	0.7h
GB 16776-2005	Hardness Shore A	42
GB 30982-2014	Elastic recovery	89%
	Movement capability	+/- 50%
		1.52MPa (23°C)
	Tensile modulus	0.8 MPa (90°C)
		2.07MPa (-30°C)
	Elongation	457%
	Tensile Adhesion Strength	At 20% elongation 0.30MPa At 40% elongation 0.43MPa
	Guarantee	25 Years
	VOC content	49 g/kg

Applications

- Structural bonding of glass curtain wall
- Structural bonding of other curtain wall
- Structural bonding for industrial purposes or other buildings



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Technical Data Sheet
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Limitations	<p>Antas-169-25 should not be applied:</p> <ul style="list-style-type: none">• On the surface of substrate that bleeds oil, plasticizer or solvent and so on (such as impregnated wood).• In totally confined spaces.• When substrate surface temperature beyond 45° C or below 5° C.• In continuous water immersion or on the surface with fog, or wet surface, or in continuous wet place• On paint surface
Primer	<p>Priming is usually required when using antas-169-25. 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.</p>
Curing and maintenance	<p>antas-169-25 begins curing when it contacts with the moisture in air. It generally cures 2mm/day, and 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.</p>
Safety	<p>It is nontoxic after entirely cured. Avoid direct contact with eyes when operating. If happened, rinse opened eye under running water for several minutes. During the curing process, sealant will release a small amount of organic molecules. Construction should ensure good ventilation. If necessary, take protective measures. Please keep children out of reach.</p>



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SGS



CE

**Tensile Test of antas-169-25 Structural Silicone Sealant (23°C)**

No.2019062002

Standard: GB 16776-2005, Q/GZJTHG 2-2015

Batch number: 169-25 BLACK-190525J3

Materials: 1-3 Aluminum + Glass, 4-5 Glass + Glass

Speed: 6mm/min

	Thickness	Width	Length	Distance	Tensile strength at 10% elongation	Tensile strength at 20% elongation	Tensile strength at 40% elongation	Maximum elongation	Elongation at break
unit	mm	mm	mm	MPa	MPa	MPa	MPa	%	%
Sample 1	48.84	11.84	12.00	1.69	0.20	0.30	0.43	499.96	522.73
Sample 2	48.96	11.80	12.00	1.40	0.20	0.31	0.44	417.74	475.70
Sample 3	48.66	12.04	12.00	1.44	0.20	0.30	0.43	433.85	479.59
Sample 4	49.34	11.66	12.00	1.59	0.20	0.31	0.44	467.55	503.66
Sample 5	49.32	12.18	12.00	1.50	0.19	0.29	0.41	465.88	467.92
Average	49.02	11.90	12.00	1.52	0.20	0.30	0.43	457.00	489.92
Standard deviation	0.27	0.18	0.00	0.10	0.00	0.01	0.01	28.68	20.29
Variable coefficient	0.55	1.54	0.00	6.88	2.02	2.48	2.55	6.28	4.14



Typical Project Cases

Hengfeng Biguiyuan Center, Guiyang
380m



Guorui Finance Center, Xi'an
350m



Huachuang Plaza, Changsha
300m



Nanning Fuya Finance Plaza, Nanning
260m



Qianhai Renshou Finance Plaza, Shenzhen
222m



Shenzhen Fortune Plaza, Shenzhen
239.8m



Typical Project Cases



Guangzhou Baiyun International Airport Terminal 2, Guangzhou, China



Zhuhai-Hongkong-Macau Bridge Zhuhai Custom Office, Zhuhai, China



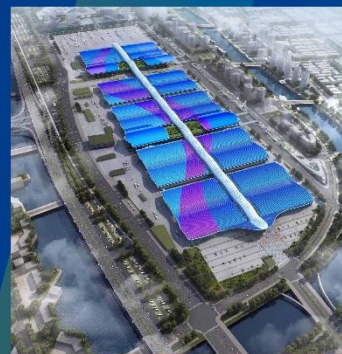
Hall of UAE in Shanghai World Exposition, Shanghai, China



Kunming Changshui International Airport, Kunming, China



Strait Culture and Art Center, Fujian, China



Shenzhen International Exhibition Center, Shenzhen, China

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The Bridge Club, Phnom Penh, Cambodia



Beijing Subsidiary City Center, Beijing, China



Far Eastern Federal University, Russia



Diamond Twin Tower, Phnom Penh, Cambodia



Hangzhou Olympic Sports Expo Center, Hangzhou, China



Malabo International Conference Center, Equatorial Guinea

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