

Antas-165 Two-Component Silicone Sealant for Insulating Glass



antas-165 is two-component, non-structural, neutral-curing insulating glass sealant. It is used as the secondary sealing in an insulating glass unit. It has good adhesion to most building materials without corrosion or stain to metal, glass, concrete, marble and etc. It has excellent weathering performance with over 15 years' service life under general environment. The service temperature is $-50^{\circ}\text{C} \sim 150^{\circ}\text{C}$.

Features:

1. The curing speed can be adjusted. It is suitable for continuous processing for both automatic and manual production lines with fast curing speed.
2. Neutral curing with no corrosion to metal, coated glass or other building materials.
3. Good weathering performance in the resistant to ozone and UV radiation.
4. Excellent performance within broad temperature range. The cured sealant will not turn brittle, hardened or cracked at -50°C . It will not turn soft or deteriorated, but will keep good strength and flexibility at 150°C .
5. Good compatibility with other neutral silicone sealants.

Applications:

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

Technical parameters (GB 29755-2013)

Number	Test items		Measured value
1	Appearance		Even, exquisite paste, No bubble, no skinning, no gel
2	Density	Part A	1.44 g/cm ³
		Part B	0.91 g/cm ³
3	Sag degree	Horizontal, mm,	No deformation
		Verticality, mm,	< 1mm
4	Tack free time, h		2
5	Applicable period		62 min
6	Hardness, Shore A		46
7	Elasticity recovery rate		83%
8	Tensile adhesion	Tensile strength	0.67MPa
		Elongation at largest tensile strength	63%
		Damage area of bonding	0%
9	Adhesion at constant load		No destruction
10	Tensile adhesion after water & UV-radiation	Tensile strength	0.70MPa
		Elongation at largest tensile strength	291%
		Damage area of bonding	0%
11	Tensile adhesion after hot-air aging	Tensile strength	0.85MPa
		Elongation at largest tensile strength	60%
		Damage area of bonding	0%
12	Mass loss rate		0.6%
13	Moisture vapor transmission rate		6.45 g/(m ² · d)

Standard:

GB/T 29755-2013

JG/T 471-2015

EN 1279-4:2018

Priming:

Priming is usually not required when using antas-165. However, sealant adhesion tests are suggested 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.

Limitations:

Antas-165 silicone sealant for insulating glass should not be applied:

1. As the primary or single seal in an insulating glass unit.
2. In structural glazing applications.
3. In totally confined spaces.
4. On the surface of substrate that bleeds oil, plasticizer or solvent and so on (such as impregnated wood).
5. In contact with or exposed to sealants that liberate acetic acid.
6. In continuous water immersion or on the surface with fog, or wet surface, or in continuous wet place.
7. When substrate surface temperature beyond 40° C or below 10° C.
8. Surfaces in direct contact with food.

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.

Technical service:

Technical details are available in Jointas for customers.

Adhesion test, compatibility test and stain test are available before sealant application.

Curing and maintenance:

To obtain ultimate physical properties, antas-165 should be thoroughly mixed using an airless mixing system. The curing can may be adjusted by changing the base to curing agent mix ratio from 9: 1 to 13: 1 by volume. The recommended mix ratio the base to curing agent is 10: 1 by volume. Sealant physical properties will not significantly change over this range. Changes in the temperature and humidity of the environment, however, will affect the working life.

Neither hand-mixing nor mechanical mixing is satisfactory due to incorporation of air resulting in altered physical properties.

Because of its reactivity with atmospheric moisture, antas-165B should not be exposed to air for long time. During shutdown of mixing equipment, dispensing and mixing lines should be purged with uncatalyzed base to minimize sealant build-up.

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.

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°C, in the cool and dry place.

Package:

antas-165A+B: 189L+19L/Set;

Shelf life:

9 months from the manufacturing date under 27 ° C.

Color:

antas-165A:White

antas-165B: Black

Mixture: Black

antas-165 Silicone Sealant For Insulating Glass (180L+18L) Construction length (m)

Thickness, mm	Width, mm						
	6	9	12	15	18	21	24
6	5500	3667	2750	2200	1833	1571	1375
9	--	2444	1833	1467	1222	1048	917
12	--	--	1375	1100	917	786	688

Note:

Because of the differences of the interface design, installation location, maintenance techniques, and the site volume loss, the actual amount of sealant is also inconsistent.

Limited warranty information:

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's test to ensure that our products are safe, effective, and fully satisfactory for the intended use shall not be taken as inducements to infringe any patent. The customer's exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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