

## Antas-172 Silicone Window & Door Assembly Sealant



### antas-172

#### Package:

300mL cartridge  
300mL sausage  
500mL sausage  
19L drum

#### Color:

Black  
Grey  
White  
Customized

#### Shelf life:

9 months from the manufacturing date under 27°C.

#### Standard:

GB/T 14683-2017  
ASTM C920-18

antas-172 is one-component, neutral curing silicone sealant for windows and doors, interior and exterior wall caulking seal. It is widely used and has good adhesion to most of building materials.

#### Features:

1. One-component, easy to use, with good extrudability and thixotropy in the temperature range of 5 °C to 45°C.
2. Neutral cure, no pollution and corrosion on metal, coated glass, concrete and other building materials.
3. Excellent resistance to weather, UV, ozone and water.
4. Excellent resistance to high and low temperature, maintain good flexibility at a range of -50°C~150°C after curing.
5. Good compatibility with other neutral silicone sealants.

#### Applications:

1. Installing window and door, glass glazing
2. Filling and sealing the gap for outdoor and indoor wall

#### Limitation:

antas-172 should not be applied:

1. To 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.
2. In totally confined spaces.
3. When substrate surface temperature is over 45 °C or below -5 °C.
4. To wet surface.
5. On the surface contacted with food directly.
6. For continual high pressure and temperature.
7. When paint is required to sealant.
8. For structural glazing.
9. Aquarium installation and sealing.

**Technical service:**

Technical details are available in Jointas for customers.

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

**Priming:**

Priming is not usually required when using antas-172. However, sealant adhesion should always be tested to determine the need for a primer. If required, primer should be applied in a thin film to the joint surface 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° C, in the cool and dry place.

**Curing and maintenance:**

antas-172 begins curing when it contacts with the moisture in air. The tack free time is about 20-40 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.

**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.

**antas-172 neutral silicone sealant (300ml) Construction length (m)**

| Thickness<br>(mm) | Width( mm) |     |     |     |     |     |     |
|-------------------|------------|-----|-----|-----|-----|-----|-----|
|                   | 6          | 9   | 12  | 15  | 18  | 21  | 24  |
| 6                 | 8.3        | 5.5 | 4.2 | 3.3 | 2.8 | 2.4 | 2.1 |
| 9                 | ——         | 3.7 | 2.8 | 2.2 | 1.8 | 1.6 | 1.4 |
| 12                | ——         | ——  | 2.1 | 1.7 | 1.4 | 1.2 | 1.0 |

**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.

**Technique parameters:**

| Number | Test items  |          | Standard Ordain<br>(GB/T 14683-2017)                            | Test results  |
|--------|---|----------|---|---|
| 1      | Appearance  |          | Smooth, uniform paste,<br>without bubbles,<br>skinning or gels. | Smooth, uniform paste,<br>without bubbles,<br>skinning or gels. |
| 2      | Sag degree, mm  | Vertical | ≤3  | 0   |
| 3      | Extrudability, ml/min   |          | ≥150  | 543   |
| 4      | Density, g/cm <sup>3</sup>  |          | Specified value±0.1<br>(1.50±0.1)                               | 1.53  |
| 5      | Tack-free time, h   |          | ≤3  | 1   |
| 6      | Elastic recovery rate,%   |          | ≥80   | 89  |
| 7      | tensile modulus (23°C), MPa   |          | >0.4  | 0.6   |
| 8      | Tensile properties at maintained extension                                  |          | No destruction  | No destruction  |
| 9      | Tensile properties at maintained extension after water immersion            |          | No destruction  | No destruction  |
| 10     | Tensile properties at maintained extension after cold drawn and hot press   |          | No destruction  | No destruction  |
| 11     | Tensile properties at maintained extension after exposure to water-UV light |          | No destruction  | No destruction  |
| 12     | Loss of mass, %   |          | ≤8  | 4   |
| 13     | Alkane Plasticizer  |          | None  | None  |