TECHNICAL DATASHEET: 667S SILICONE STRUCTURAL ADHESIVE FOR INSULATING GLASS

PRODUCT DESCRIPTION

APP 667S is a structural adhesive used for insulating glass. It is a two-component, neutral-curing silicone structural adhesive specifically designed for the secondary sealing of insulating glass.

PRODUCT FEATURES

Two-component, adjustable curing speed, fast deep curing, suitable for application in factories; high strength, high modulus and excellent adhesion; neutral curing, non-corrosive to various glass materials such as coated glass, low-E glass, tempered glass and laminated glass.

TYPICAL APPLICATIONS

Secondary structural sealing of insulating glass.

TYPICAL TECHNICAL INDICATORS

Test item		**Indicator**
Sag	Vertical, mm	≤3
	Horizontal	No deformation
25% adhesion properties at maintained extension		No damage
Tack-free time, h		≤3
Hardness, Shore A		30~60
Tensile adhesion, MPa	Standard conditions	≥0.60
	90°C	mage
	-30°C	mage
	After soaking	mage
	After exposure to water and ultraviolet light	mage
	Adhesive bond loss, %	magemage
Thermal ageing	Thermal weight loss, %	≤6.0
	Cracking	None
	Cracking	None

APP International Pty Ltd
3 Wulbanga Street
Prestons NSW
2170 Australia

P 1300 571 757
M 0439 742 757
E jimmy@appinternational.com.au
W www.appinternational.com.au

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STANDARD COMPLIANCE

National standard GB 24266-2009

DIRECTIONS FOR USE

First, ensure that the bonding surface of the insulating glass is clean and dry.
Part B must be stirred before use, as sedimentation may occur during transport.
Before gluing, a butterfly test should be performed to check the mixing uniformity of the two components.
Test the breaking time of the adhesive. Always observe the filling amount of the secondary sealant.
Ensure that the sealant makes full contact with the butyl rubber and is flush with the glass edge. The glued insulating glass should be separated piece by piece and preferably left to cure in an upright position. It can only be moved after curing.

RESTRICTION OF USE

Not suitable for use on the surfaces of any materials that exude grease, plasticiser or solvent, such as oil-impregnated wood;
Not suitable for use on frosted or wet surfaces;
Not suitable for use in places that are continuously soaked in water or wet all year round;
Not suitable for application when the surface temperature of the material is below 10°C or above 40°C.

PACKING SPECIFICATION

Part A: 190 L/barrel, 180 L/barrel
Part B: 19 L/barrel, 18.5 L/barrel

COLOUR

Part A: white, Part B: black. Black after mixing.

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STORAGE

Store in a cool and dry place below 27°C. Shelf life is 12 months for Part A and 9 months for Part B from the date of production. Part B should be sealed, as exposure to air will cause it to skin or fail.

CURING TIME

The mixing ratio of APP 667S is A:B=9-11:1 (by volume) or 13-16:1 (by weight). The recommended mixing ratio is A:B=10:1 (by volume) or 14:1 (by weight). Increasing the proportion of Part B can accelerate curing, but it must not exceed the above range, as this may cause abnormal curing or reduced performance of the sealant. After the two components are mixed, the sealant begins to cross-link and cure. The curing time is not affected by external humidity, and the tack-free time is related to the mixing ratio of the two components.

CAUTIONS

This product is not toxic after full curing, but avoid contact with eyes before curing. If contact with eyes occurs, rinse with plenty of water and get medical attention. Uncured product should be out of the reach of children. This product releases alcohols during the curing process, so attention should be paid to ventilation in the application and curing area to avoid adverse effects on people from high alcohol concentrations.

NOTE

The information contained herein is believed to be reliable. Due to the wide range of actual conditions, it is impossible for us to anticipate every situation, so we cannot guarantee the correctness and suitability of our product for particular uses and purposes. Users should have a detailed understanding of the product before using it, and then decide for themselves the best way to use it.

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