TECHNICAL DATASHEET: APP 977 HIGH-PERFORMANCE SILICONE WEATHER-RESISTANT SEALANT

PRODUCTDESCRIPTION

APP 977 high-performance silicone weather-resistant sealant is a one-component, neutral-curing weather-resistant adhesive with a high displacement capacity of class 35. It is specially designed for weather-resistant sealing of various curtain walls (glass curtain walls, aluminium curtain walls, etc.), providing safe, reliable and durable performance for curtain walls.

PRODUCT FEATURES

One-component, good extrudability and thixotropy, easy to use;
Neutral curing, wide range of applications, eco-friendly, non-corrosive;
High displacement capability; easily accommodates the normal expansion and shear deformation of curtain walls; effective sealing;
Excellent weathering resistance and high and low temperature resistance;
Excellent adhesion, strong adhesion with most building materials after curing, no primer required.

TYPICAL TECHNICAL DATA

Test item		Indicator
Sag	Vertical, mm	≤3
	Horizontal	No deformation
Extrudability, mL/min		≥80
Tack-free time, h		≤3
Displacement capacity, %		±35
Elasticity recovery, %		≥80
Tensile modulus/MPa	23°C	>0.4
	-20°C	>0.6
Adhesion properties at maintained extension		No damage
Adhesion properties after hot pressing and cold drawing		No damage
Adhesion properties at maintained extension after water immersion and light exposure		No damage
Mass loss rate, %		≤8

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MAIN APPLICATIONS

Weather-resistant sealing of various glass curtain walls and aluminium curtain walls;
Sealing of joints in concrete, metal and roof structures;
Various other applications.

STANDARD COMPLIANCE

This product complies with the national standards GB/T14683-2017 and GB/T 22083-2008, with a displacement capacity of 35 HM.

RESTRICTIONS ON USE

Cannot be used as a structural sealant;
Not suitable for use on the surface of any material that exudes grease, plasticiser or solvent, such as oil-impregnated wood;
Not suitable for use in unventilated places, as the sealant needs to absorb moisture from the air to cure;
Not suitable for use on frosted or wet surfaces;
Not suitable for use in places that are continuously soaked or wet all year round;
Not suitable for use on copper, lead or galvanised metal surfaces;
Not suitable for sealing polycarbonate materials.
Not suitable for application when the surface temperature of the material is below 4°C or above 40°C; under low humidity (<50%RH) or a large day–night temperature difference (>15°C), the glue line may bulge, but this does not affect the sealing performance.

COLOUR

Black, grey, white or other colours as required by users.

STORAGE AND SHELF LIFE

Store below 27°C in a cool and dry place. Shelf life is 12 months from the date of production.

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INTERFACE DESIGN AND APPLICATION METHOD

See the Process Guide for the Use of Silicone Sealant.

CAUTIONS

This product is not toxic after full curing; however, 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 low-molecular-weight substances during the curing process, so attention should be paid to ventilation in the application and curing area.

MAINTENANCE

Generally, no maintenance is required. If the glue line is broken, replace the damaged portion by simply removing the accumulated dirt with solvent and filling with sealant. APP silicone sealant adheres well to the cured silicone sealant.

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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