

YHSil-110 WR

Weather-resistant neutral silicone sealant

Description

YHSil-110 WR Neutral Silicone Weatherproofing Sealant is a one-component, neutral curing and easy-to-apply sealing material. It has excellent weathering and displacement resistance (25HM). It can firmly adhere to most building materials without prime coating.

Features & Benefits

- $\pm 25\%$ movement capability
- Excellent UV and weather resistance
- Non-corrosive to most substrates
- Suitable for both indoor and outdoor applications

Uses

- Ideal for weatherproofing joints between various substrates such as glass(not including mirror),metals(not including copper),aluminum, and concrete.
- Widely used in awnings,roofs and gutters,windows and door sinstallation,billboards,elevators,small glass curtain walls,small stone curtain walls,small aluminum curtain walls and other joint parts of the non-structural bonding seal.



Packing and Specifications

Item	Description
Composition	Neutral curing silicone
Colors	White, gray, black, transparent
Packaging	300 ml Cartridge, 24 per box 500 ml Sausage, 20 per box

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Typical Properties and Characteristics

Description	TestMethods	Values
Density	ISO 1183-1	1.55 g/cm3
Slump	ASTM D2202	0mm
Flow	ISO 7390	0 - 1 mm
Tensile strength	ASTM D412	1.63Mpa
Elongation at break	ASTM D412	479%
Movement Capability ±25%	ASTM C719	/
Shore A hardness/Shore A Hardness After 28 day	ASTM C661	40HA
Secant Tensile Modulus (100 % elongation +23°C; 100 % elongation -20°C)	ISO 8339	0.34N/mm ² 125 %

Description	TestMethods	Values
100 % modulus	DIN 53504 S2	0.34Mpa
Elastic Recovery	ISO 7389	84%
Tear Propagation Resistance	ASTM D624-00	14.71 kN/m

Application Information

Item	Description
Application temperature	+5°C to +40°C
Tack free time	~30 minutes @+23°C/50% RH
Curing time	~3 mm/24 hours @+23°C/50% RH
Temperature resistance	-40°C to +100°C
Frost resistance during transportation	Up to - 15°C

Application Method

Substrate preparation

Ensure substrate surfaces are clean and free of dirt, oil stains, and other loose or contaminated materials. Lay masking tapes at joint edges to ensure cleanliness.

Application

Cut the nozzle to a suitable diameter at an angle of approximately 45° to 60°.

Squeeze out one bead of sealant with a glue gun.

Squeeze the sealant to make it in full contact with both

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sides of the joint and avoid any air entrainment.

Smooth the sealant with a finishing tool to obtain a smooth surface.

Remove masking tapes immediately after smoothing.

Application tips:

Please conduct compatibility and adhesion tests before use.

Transportation & Storage

This product is a non-flammable and explosive material and can be transported as general cargo. During transportation, it is necessary to prevent rain, sun exposure, and freezing, avoid squeezing and collision, and keep the packaging intact and undamaged.

Store in a cool and dry place below 27°C, and unopened products have a shelf life of 12 months;

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Ecology, Health, and Safety

Users shall refer to the latest Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data for information and advice on safe handling, storage and disposal of chemicals.

Local Restrictions

The performance of this product may vary from country to country due to specific local regulations. For an exact description of the field of application, please refer to your local Product Data Sheet.

Legal Notes

This information, especially the recommendations related to the application and final use of Oriental Yuhong's products, is provided based on Oriental Yuhong's current knowledge and experience of the products when stored, handled, and applied properly in accordance with Oriental Yuhong's recommendations under normal conditions. In practice, the differences in materials, substrates, and actual site conditions make it impossible to infer any guarantee of merchantability or suitability for a specific application from this information, any written suggestions, or any other advice provided, nor can any liability arise from any legal relationship. The user of the product must test the product's suitability for the intended application and purpose. Oriental Yuhong reserves the right to change the characteristics of its products. Ownership of third parties must be observed. All orders are subject to our current Terms of Sale and Delivery. Users must always refer to the latest issue of local Product Data Sheet for the products concerned, copies of which will be provided upon request. The above disclaimer may need to be tailored to specific local laws and regulations.