

REDOSEAL WS-100

Weatherproof Neutral
Silicone Sealant



Description:

REDOSEAL WS-100 weatherproofing silicone sealant is a one-part neutral cure, RTV, construction grade sealant that easily extrudes in any weather. It quickly cures at room temperature by reaction with moisture in the air to form a durable, flexible weather silicone seal. It has medium modulus characteristics and excellent un primed adhesion to most construction materials like ACP, glass, aluminium, wood, ceramic etc.

Uses:

- Suitable for use on masonry substrates and will not corrode most building components.
- For weather proofing and sealing applications.
- Use as a weather sealant for curtain wall and metal cladding facades.
- Used for wet area joints in bathroom, toilet and kitchen and around the sanitary ware.

Advantages/Characteristics:

- Neutral cure.
- Good weatherability - it is virtually unaffected by sunlight, rain, snow, ozone or temperature extremes.
- Medium modulus - with expansion compression capability up to $\pm 25\%$ of original joint width.
- Permanently elastic after curing which stays elastomeric from -30°C to 220°C without hardening, cracking or becoming brittle under normal weather conditions.

Product Standard compliance:

ASTM C920, class 50 ASTM G21, ASTM C1248

Company standard Compliance:



Technical Information:

Properties	Specification
Chemical Base	Silicone
Density	1.36 ± 0.02 (g/ml)
Color	White, Black, Grey, Clear
Flow, Sag or Slump	Non - Sag Thixotropic Smooth Paste
Skin Formation Time* (22°C / 50 % RH)	10 - 30 min
Curing Rate* (22°C / 50 % RH)	3 mm / 24 Hrs.
Elongation	>450 %
Durometer Shore A Hardness	25 - 35
Tensile Strength N/mm ²	1.2 - 1.5
Maximum Allowed Distortion	25%
Service Temperature	-30°C to 220°C

Method of Application:

APPLICATION:

- REDOSEAL WS-100 Silicone Weatherproofing Sealant is a specified, premium performance weather sealing product specifically designed for general glazing and weather sealing in curtain wall and building facades.

PREPARATION:

- Clean all joints, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

APPLICATION METHOD:

- Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but maybe necessary for optimal sealant of certain porous surfaces. A test placement is always recommended. Apply REDOSEAL WS-100 Silicone Weatherproofing Sealant in a continuous operation using a positive pressure. (The sealant can be applied using many types of

airoperated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 15~20 minutes), tool the sealant with light pressure to spread the sealant against backing material and the joint surfaces. Remove masking tape as soon as the bead is tooled.

Packaging.

REDOSEAL WS-100 is available in 600 ml foil pack , 20 per box.




Storage:

Shelf life is 12 months in unopened packs stored at bellow 5°C to 30°C in unopened Condition.

Health & Safety:

Should accidental skin contact occur, remove contaminated clothing and wash with warm soapy water. Do not scrub. If inhaled remove person to fresh air. Get medical advice if breathing becomes difficult. In case of contact with eyes, rinse immediately with plenty of clean water for at least 15 minutes and seek medical advice. If swallowed, give a glass of water to dilute and seek medical attention immediately - do not induce vomiting. For further information, refer to the appropriate Product Material Safety Data Sheet.

	It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.
	ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.
	ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.
	ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance

	This symbol is used to identify Redwop products which give off a low level of volatile organic compounds(VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.
	Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.
	ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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