

CWC®SMART SEALANT SIL

Singal Component Silicone Sealant

Description

CWC®SMART SEALANT SIL is a single component, non-slumping, high performance silicone sealant which reacts with atmospheric moisture to produce a flexible silicone rubber gasket, ideal for a wide variety of general purpose joint sealing and glazing applications. The product resists aging, weathering and thermal cycling without hardening, shrinking or cracking.

This is a universal gasket maker and general purpose adhesive and sealant for industrial and construction applications. It has good adhesion to substrates aluminium, mild steel, glass, ceramics, corks and many plastics.

Product Characteristics

Form	Paste
Colour	Clear / White / Black
Curing method	Moisture cure
Skin Forming Time @ 30°C, minutes	2 – 10
Depth Cure @ 30°C, mm/day	> 2
Flow, sag or slump @ 30°C	Non-Sag
Specific Gravity @ 30°C	0.96 – 1.02
Tensile Strength, N/mm²	> 1
Elongation, %	> 350
Hardness, Shore A	16 ± 4

Advantages:

- Quick initial cure to minimize down time
- Resistant to wide range of chemicals, water, U.V., oils and solvents.
- Excellent tensile strength and elongation
- Strong adhesion and strong expansion capacity
- Excellent weather resistance
- Environmentally non-toxic
- Non-staining and Economical.
- No Mixing Required

General Information

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

Curing

The product cures on exposure to moisture in the air, typically developing a skin within minutes, becoming tack free within minutes to hours. After skin formation, cure continues inward from the surface. Optimum physical properties are reached after curing for 7 days at 30 ± 2°C, 55±5% RH.

The rate of surface/depth cure depends on the relative humidity and temperature of the environment, thickness of the adhesive and the area under the joint. Curing time is extended at lower humidity levels.

Directions for use

Substrate preparation

Surfaces to be adhered or sealed should be free of dirt, oil and other contaminants. For best performance the surface with a solvent such as isopropyl alcohol acetone or methyl ethyl ketone or with coarse lint free cloth.

A surface primer is recommended for hard to bond surfaces, such as some plastics. Apply a thin coat of primer after cleaning the surface with solvent and allow drying for 5 to 10 minutes at room temperature.

Note that the adhesive may not show adhesion to polyethylene, polypropylene, polyacetal or Teflon

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Method of application

Adhesive/sealant can be applied directly from its collapsible tube or extruded from its cartridge.

A plastic nozzle is supplied which can be cut to the desired orifice and shape to facilitate application.

Apply a continuous bead of adhesive/sealant to the prepared surface in a uniform thickness. If spreading is required, use enough pressure to spread the adhesive/sealant and displace any trapped air

The adhesive/sealant bead size to be specified is a function of anticipated gap size for the part and the flange width. Consult CWC representative for equipment supplier and design recommendations.

Dispensing

The product can be dispensed using a manual dispensing gun, Pneumatic dispensing gun or customized dispensers. While using pneumatic dispensers, the product should be dispensed using 1 or 2 bar pressure.

Working time

Moisture curing begins immediately after the product is exposed to the atmosphere, any tooling should be completed before the skin forms and to ensure integrity of seal between mating parts, parts to be assembled before the sealant skins over. Higher humidity will accelerate this cure time.

Excess material can be easily wiped away with non polar solvents

Shelf Life:

When stored at or below 30°C, in the original unopened containers, this product has a shelf life of 9 months from the date of manufacture.

Pack Size

300 ml HDPE cartridges.

Precautions

- Do not use for applications where the product will be in constant contact with gasoline, synthetic fuels or solvents.
- Does not use in totally confined applications as sealant must have exposure to moisture from atmosphere to cure.

Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.cwcchemicals.com

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