

# COSHH Product Data Sheet for Silicone Sealant Joints

## 1.0 High Modulus Silicon Gel Sealant General Information / Description

- 1.1. Application: Jointing in glass wall elements.
- 1.2. General: A sealant contained in a tube and applied using the appropriate gun which cures rapidly on exposure to air which provides a seal of resilient silicon rubber.
- 1.3. Specification Compliance To British Standard 5889: 1989 Type B.
- 1.4. Installation: Carefully read and follow instructions supplied with product.
- 1.5. Joint Size: Good joint design is important in obtaining the highest degree of performance from the sealant. Design joint width should be not less than four and a half times total expected movement. For optimum movement accommodation it is recommended that:
  - a) Joint depth should not be less than 5mm.
  - b) Joint depth should be 5mm up to a joint width of 10mm.
- 1.6. Colour: Normally translucent.
- 1.7. Storage: Please check with supplied product, normally twelve months storage life in original unused package, stored in a cool dry place and out of direct sunlight.

## 2.0. Working Characteristics & Performance of Product During Service Life

- 2.1. Form: Gel.
- 2.2. Flash Point: Not Applicable.
- 2.3. Tensile Strength: Exceeds 1.00Mn/m<sup>2</sup>.
- 2.4. Chemical & Physical Change after Application: Chemical Cure.
- 2.5. Application Temperature Range: Whilst the silicone can be applied at various temperatures, extreme temperatures are not encountered within office interiors however glass being transported from an outside environment to an internal environment the glass could be exposed to varying temperatures, upon being placed in a office environment where temperatures are much warmer it is desirable to allow the glass to adjust to the warmer temperature to ensure freedom from any moisture prior to applying the silicone to the glass

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- 2.6. Cure Time: The sealant forms a surface skin within five minutes and is tack free after one hour subject to temperature, on average joints up to 10mm depth are normally fully cured after seven days.  
This is dependant on the surface area exposed and the temperature / humidity of the working environment .  
The sealant gives off a vinegary smell of acetic acid during the curing cycle but this odour will disappear when the cure is completed. Take great care as acetic acid is a corrosive substance and may promote rusting or corrosion of some metal surfaces ie. copper, mild steel, lead etc., and may adversely affect surfaces such as limestone, concrete and marble.
- 2.7. Flammability: The cured sealant does not support combustion. It will burn if subjected to intense heat, however it will cease burning when the heat is removed.
- 2.8. Chemical Resistance: Excellent to attack by alkalis and dilute acids in normal building practices and certain heavy industrialised areas.
- 2.9. Chemical Resistance: Resistant to most alkalis and dilute acids with little change in properties. Organic solvents may cause the seal to swell and lose adhesion, but this does not directly dissolve the material.
- 2.10. UV Resistance: Excellent.
- 2.11. Hardness: Approximately 18 Shore A
- 2.12. Staining: The sealant will not cause staining on porous surfaces when used in accordance with manufacturers recommendations. Pattern staining may however occur with all silicone sealants due to dirt and dust washed onto or around the joint.
- 2.13. Durability: Anticipated life excess of 25 years.
- 2.14. Maintenance: Correctly applied sealant should not require maintenance during its normal service life. Damaged sealant can be replaced by carefully cutting out the affected area, cleaning the surface, priming and then applying fresh sealant as per the original specification.

### 3.0. Health and Safety

- 3.1. Skin Contact: Avoid prolonged contact. Wash off with soap and water before the material dries.
- 3.2. Eye Contact: Irrigate with clean water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
- 3.3. Inhalation: Use in ventilated areas.

The data given is based on current information available  
Manufacturers recommendations must be followed at ALL times