

# Technical Data



## SILICONE 825

Low Modulus Neutral Cure Sealant



### Description

SILICONE 825 is a low modulus, neutral cure, alkoxy, odourless silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming. Certified to ISO 11600 F+G25LM.

### Benefits

- Excellent tooling and slow skinning properties for large scale construction and glazing applications.
- Excellent adhesion - adheres to most common surfaces including glass, metals, plastics and wood (painted or unpainted), uPVC and polycarbonate.
- Excellent external weathering properties (over many years exposure).
- High viscosity non slump formula.
- Resistant to fumed Hydrogen Peroxide and fumed Formaldehyde.

### Recommended For

Perimeter pointing internally and externally around PVCu /wood and powder coated aluminium. Sealing and as an adhesive onto PVCu, plastic trims and components. Sealing soft metals such as lead, copper and zinc. Weather sealing and joint sealing to pre-formed panels and curtain walling, glazing sealing and draught proofing. Glass to glass and glass to aluminium sealing. Parapet and roof weather sealing applications.

Suitable as an expansion joint sealant.

Bedding and sealing of Insulated Glass units.

### Specification Compliances

Certified to ISO11600 F25LM and G25LM.

- SNJF 25E for glazing and façade (primed aluminium and unprimed glass and mortar)
- CE marked under EN15651 for cold climate, façade, glazing and sanitary applications.



### Available in

380ml Cartridges in the following colours:

White  
Black  
Mid Grey  
Dark Grey  
Brick Red  
Brown  
Buff  
Beige  
Anthracite  
Dark Anthracite RAL 7016  
Magnolia  
Portland Stone  
Limestone White

### Storage

Store in original unopened containers between +5°C and +30°C. Storage outside these parameters may dramatically reduce shelf life.

### Shelf Life

12 months from date of manufacture.

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### Health & Safety

Consult MSDS for full list of hazards.

### Specific Data

Movement Accommodation ISO9047	(ASTM C719) $\pm 35\%$
Skinning Time	30-45 mins
Cure Time	mm/1 day approx 2 mm/3 day approx 6 mm/7 day approx 9
Hardness Shore A	20-30
Shrinkage ISO10563	<5%
Service Temperature Resistance	-50°C to + 150°C
Application Temperature	+5°C to + 40°C
Specific Gravity	1.33 - 1.37
Cleaning	Uncured sealant - white spirit. Cured sealant - Everflex Silicone Eater
Maximum Joint Width	50mm
Joint Ratio	Max Depth 50% of joint width
Coverage	@ 5 linear metres 9 x 9mm fillet joint
Elongation at Break ISO 8339 23°C	>200%
Tensile Modulus at 100% Elongation ISO 8339 23°C	0.25—0.3MPa
Tensile Adhesion Strength at Break	0.5MPa
Elastic Recovery ISO 7389	>80%
Compressive Modulus 100% ISO 11432	0.35 MPa

### Joint Dimensions

For maximum movement accommodation, it is recommended that:

1. The sealant joint depth should be no less than 5mm
2. Joint depth should be 5mm for joints up to 10mm wide
3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

Joint depth may be adjusted to the correct size using EVERBUILD JOINT BACKER ROD or BOND BREAKING TAPE in cases where there is not enough depth to use Backer Rod.

### Movement Factors

Maximum 70% (not to exceed 35% in any one direction)

### Joint Width Calculation

Joint widths are calculated as in BS6213:

$$\text{Width} = \frac{M \times 100}{F} + M$$

Where M = movement and F = movement accommodation Factor

### Primer

SILICONE 825 does not require a primer on most common surfaces, although adhesion tests are recommended prior to full scale application. If the joint is likely to be immersed or if adhesion is poor (especially on porous surfaces) use EVERBUILD SILICONE PRIMER P1. To improve adhesion (if required) to non-porous surfaces, prime with EVERBUILD SILICONE PRIMER NP2 (advised for aluminium).

### Surface Preparation

Surfaces must be clean, dry and free from dust, grease and other contaminants. Remove dust with compressed air. Degrease by using a solvent soaked pad, following by wiping with a clean cloth. Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline surfaces	Brush and remove dust

### Limitations

- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Do not use in the manufacture of Aquariums.
- Do not use on substrates that bleed oil, solvents or plasticisers.
- Non overpaintable.
- Use as a mirror adhesive; Not recommended.
- Do not use on food grade applications – Use Silicone 565
- Do not use to produce swimming pool joints.
- Can yellow if exposed to bleach or HCL based brick cleaners whilst curing.

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