

Technical Data

SILICONE 825

Low Modulus Neutral Cure Sealant



Description

SILICONE 825 is a low modulus, neutral cure, alcoxy, odourless silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming.

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.

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

Conforms fully to ISO11600 F and G 25LM – glass, aluminium (primerless) concrete primerless) & uPVC. SILICONE 825 also conforms to SNJF norms as a category 1 elastomer: primerless adhesion on glass, anodized aluminium and concrete and also as an elastic sealant, primerless on glass and anodized aluminium (according to DTU 39).



Available in

380ml Cartridges in the following colours:

White
Black
Mid Grey
Dark Grey
Brick Red
Brown
Buff
Anthracite
Magnolia
Portland Stone

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

SILICONE 825 is not classified as hazardous to health as supplied under current C.H.I.P regs.

Slightly irritating to eyes, respiratory system and skin. Avoid unnecessary skin contact and inhalation of vapours. Remove with soap and water. If product enters eyes, rinse immediately with soap and water. Seek medical advice if irritation persists. Ensure good ventilation in use.

Data sheet available to professional user upon request.

Specific Data

Movement Accommodation	±25%
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 (DIN53505)
Shrinkage	<5%
Service Temperature Resistance	-50°C to + 150°C
Application Temperature	+5°C to + 40°C
Tensile Strength	1.0Mpa (EN28339)
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	@ 10 linear metres 9 x 9mm fillet joint
Elongation at Break	500-600% (ASTM D 412)
Tensile Modulus at 100% Elongation	0.4Mpa (ASTM 412 D)
Tensile Adhesion Modulus @ 100% Elongation	0.3Mpa (ISO 8339 glass substrate)
Tensile Adhesion Strength at Break	0.5Mpa (ISO 8339 glass substrate)
Tensile Elongation at Break	250% (ISO 8339 glass sub- strate)
Peel Adhesive Strength	6 KN/m (ASTM C 794)
Elastic Recovery	>80% (DIN52458)
Life Expectancy	25 Years +

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.

Movement Factors

Butt joints (movement in tension and compression): 25%
(Not to exceed +/- 30% in any one direction)

Lap joints (movement in shear): 100%
(Not to exceed +/- 70% 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

Surface Preparation

The surfaces to be 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

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.

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 FOODMATE
- Do not use to produce swimming pool joints.