

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 to ISO11600 F 25LM. (Report number RLR.10)



Available in

380ml Cartridges in the following colours:

- White
- Black
- Mid Grey
- Dark Grey
- Brick Red
- Brown
- Buff
- Anthracite
- 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

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| 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 |
| Shrinkage | <5% |
| Service Temperature Resistance | -50°C to + 150°C |
| Application Temperature | +5°C to + 40°C |
| Tensile Strength | 1.0Mpa |
| 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% |
| Tensile Modulus at 100% Elongation | 0.4Mpa |
| Tensile Adhesion Modulus @ 100% Elongation | 0.3Mpa |
| Tensile Adhesion Strength at Break | 0.5Mpa |
| Tensile Elongation at Break | 250% |
| Peel Adhesive Strength | 6 KN/m |
| Elastic Recovery | >80% |
| 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

+/- 25%

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

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:

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| 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.

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.