

PRODUCT DATA SHEET

Everbuild Tecnic® Silicone 825

A low modulus, neutral cure silicone sealant

PRODUCT DESCRIPTION

Everbuild Tecnic® Silicone 825 is a low modulus, neutral cure, alkoxy, low odour silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming.

USES

- 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.
- Ideal for precast concrete and masonry products, including brick, natural stone and terracotta.
- Suitable as an expansion joint sealant.
- Bedding and sealing of Insulated Glass units.

CHARACTERISTICS / ADVANTAGES

- 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 once fully cured.

Shrinkage ISO10563	<5 %
Tensile Modulus at 100%	0.25—0.3 MPa
Elongation ISO 8339 23°C	
Tensile Adhesion Strength at Break	0.5 MPa
Compressive Modulus 100% ISO 11432	0.35 MPa
Movement Factors	Maximum Compression 35 % Maximum Elongation 100 % (for a 20 mm wide joint min 13 mm max 40 mm)

APPROVALS / STANDARDS

- Certified to ISO11600 F25LM and G25LM.
- UKCA and CE marked under EN15651 for cold climate, façade, glazing and sanitary applications.
- ASTM C719 Class 35

PRODUCT INFORMATION

Chemical Base	Alcoxy silicone
Packaging	380 ml cartridge 600 ml foil pack
Shelf Life	12 months from date of manufacture.
Storage Conditions	Store in original unopened containers between +5 °C and +25 °C. Storage outside these parameters may dramatically reduce shelf life.
Colour	White, Black, Mid Grey, Dark Grey, Brick Red, Brown, Buff, Beige, Anthracite, Dark Anthracite RAL 7016, Magnolia, Portland Stone, Limestone White
Density	Colours: 1.33 - 1.37 g/cm ³
Shore A Hardness	22-32
Elongation at break	>200 % (ISO 8339, +23 °C)
Movement Capability	(ASTM C719) ±35 % (ISO11600) ±25 %
Elastic Recovery	>70 % (ISO 7389)
Thermal Conductivity	0.10983 W/mK
Service Temperature	-50 °C to + 150 °C
Joint Design	Maximum joint width 50 mm, max depth 50 % of joint width Joint widths are calculated as in BS6213: $Width = (M \times 100) / F + M$ Where M = movement and F = movement accommodation Factor For maximum movement accommodation, it is recommended that: 1. The sealant joint depth should be no less than 5 mm. 2. Joint depth should be 5 mm for joints up to 10 mm wide. 3. Joints above 10 mm in width should be half the width in depth up to 20 mm and minimum 10 mm for wider joints. Joint depth may be adjusted to the correct size using EVERBUILD® JOINT BACKER ROD.
Yield	3 linear metres 9 x 9 mm fillet joint (380 ml cartridge)
Ambient Air Temperature	+5 °C to +40 °C
Curing Time	mm/1 day approx 2 mm/3 days approx 6 mm/7 days approx 9
Skin Time	30-45 minutes

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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.
- Not recommended for use as a mirror adhesive.

- Do not use on food grade applications – Use Silicone 565 Clean Room Silicone.
- Do not use to produce swimming pool joints.
- Can yellow if exposed to bleach or HCl based brick cleaners whilst curing.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

APPLICATION INSTRUCTIONS

PRIMER

Everbuild Tecnic® 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 Sika® PRIMER 3N. To improve adhesion (if required) to non-porous surfaces, prime with Sika® Aktivator 205.

SUBSTRATE 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
Polyester Powder Coated Aluminium (PPCA)	Sika® Cleaner P and Sika® Aktivator-205

APPLICATION METHOD / TOOLS

We recommend following Sika® Method Statement; Facade Joint Sealing for good working practice

CLEANING OF TOOLS

Uncured sealant - white spirit. Cured sealant - mechanically

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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