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, odourless 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 uPVC /wood and aluminium.
- Sealing and as an adhesive onto uPVC, 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.

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.

Shrinkage ISO10563	<5%
Tensile Modulus at 100% Elongation ISO 8339 23°C	0.25 - 0.3 MPa
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 20mm wide joint min 13mm max 40mm)

APPROVALS / STANDARDS

- 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.

PRODUCT INFORMATION

Chemical Base	Alkoxy silicone
Packaging	380ml cartridges
Colour	White, Black, Mid Grey, Dark Grey, Brick Red, Brown, Buff, Beige, Anthracite, Dark Anthracite RAL 7016, Magnolia, Portland Stone, Limestone White
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.
Density	1.33 - 1.37g/cm^3
Shore A Hardness	20-30
Elongation at Break	>200% (ISO 8339, 23°C)
Elastic Recovery	>80% (ISO 7389)
Movement Capability	(ASTM C719) ±35% (ISO11600) ±25%
Service Temperature	-50°C to + 150°C
Joint Design	Maximum joint width 50mm, max depth 50% of joint width Joint widths are calculated as in BS6213: Width=(M x 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 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 in cases where there is not enough depth to use Backer Rod.
Yield	@ 5 linear metres 9 x 9mm fillet joint
Ambient Air Temperature	+5°C to + 40°C
Curing Time	mm/1 day approx 2 mm/3 day approx 6 mm/7 day approx 9
Skin Time	30-45 mins

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 EVERBUILD SILICONE PRIMER P1. To improve adhesion (if required) to non-porous surfaces, prime with EVERBUILD SILICONE PRIMER NP2 (advised for aluminium).

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 Silicone Primer NP2

CLEANING OF TOOLS

Uncured sealant - white spirit. Cured sealant - mechanically

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
Do not use to produce swimming pool joints.
Can yellow if exposed to bleach or HCl based brick cleaners whilst curing.

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.

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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

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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