

Technical Data

SILICONE 950

Low - Mid Modulus Neutral Cure Sealant



Description

SILICONE 950 is a low to mid modulus, neutral (oxime) cure silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming.

Benefits

- Excellent tooling 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 weather properties (over many years exposure)

Recommended For

Perimeter pointing internally and externally around PVCu /wood and all other window frames. Sealing and as an adhesive onto PVCu, plastic trims and components. Weather sealing and joint sealing to pre-formed panels. General 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.



Available in

380ml Cartridges in the following colours:

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 a full list of hazards.

Specific Data

Movement Accommodation	+ or - 25%
Skinning Time	15 - 30 mins
Cure Time	mm/1 day approx 3 mm/3 day approx 7 mm/7 day approx 9
Hardness Shore A	30-35
Shrinkage	<5%
Service Temperature Resistance	-50°C to + 150°C
Application Temperature	+5°C to + 40°C
Tensile Strength	1.3Mpa
Specific Gravity	1.00 (clear)- 1.40 (white)
Cleaning	Uncured sealant - white spirit. Cured sealant - Everflex Silicone Eater
Minimum Joint Width	5mm
Maximum Joint Width	25mm
Joint Ratio	Maximum depth 50% of joint width.
Resistances	Resistant to mild acids / alkalis at < 10% concentration
Elongation at Break	500-% (white) 600% (clear)
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	>90%
Life Expectancy	35 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 or BOND BREAKING TAPE in cases where there is not enough depth to use Backer Rod.

Movement Factors

Butt joints: 50% (not to exceed +/- 25% in any one direction)

Lap joints: 100% (not to exceed +/- 50% 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 950 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.

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, followed by wiping with a clean cloth. Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol, MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol, 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 FOODMATE
- Do not use to produce swimming pool joints.
- Do not use for bedding IG Units - Use Silicone 825 / 996.

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