

# Technical Data

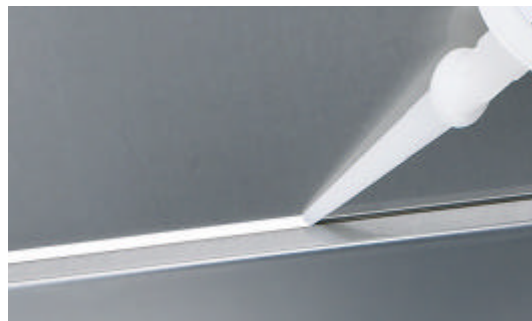
## FOREVER SAFE

Superior Anti-Bacterial , Food Safe Silicone



### Description

FOREVER SAFE SILICONE, containing Microban, is guaranteed to kill most common germs on the surface of the sealant including E-Coli, MRSA, Salmonella, Listeria, Staphylococcus, to stop Black Mould and is safe for use in Food Preparation areas. The antibacterial technology used has EU Food Contact Approval.



### Benefits

- Kills MRSA, E-Coli, Listeria, salmonella and Staphylococcus.
- FDA approved for food contact.
- 10 year mould guarantee.
- Excellent flexibility - +/- 25%.

### Available in

C3 Cartridges in the following colours:

White

### Storage

Store between 5°C and 25°C in dry conditions. Exposure to higher / lower temperatures will dramatically reduce shelf life.

### Recommended For

For sealing in commercial kitchens and bathroom areas, Medical and Pharmaceutical clean rooms, Hospitals, operating theatres and clinics and refrigerated food storage areas.

Also, ideal sealing domestic kitchen worktops and food areas and communal shower areas.

### Shelf Life

Use within 12 months.

### Specification Compliances

Forever Safe is independently tested and certified by an accredited microbiological laboratory to show no mould growth after more than 10 yrs simulated ageing. Copies of test data are available upon request.

Forever Safe is formulated using a premium quality permanently flexible waterproof 100% Silicone Sealant.

Forever Safe is also formulated using an FDA approved Silicone Sealant with FDA approved fungicide.

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### Health & Safety

Consult MSDS for full list of hazards.

### Specific Data

Form	Thixotropic paste (ready to use)
Curing System	Acetoxly
Coverage	Approx 10 linear meters per cartridge
Service Temp	-40°C to 180°C
Tooling Time	15-25 mins after application
Tack Free Time	1 Hour
Cure (10mm layer)	5 - 7 days (1-2mm per day)
Specific Gravity	1.02 approx
Slump (U20 Profile)	Nil.
Durability	Up to 25 years when used as recommended
Shrinkage (during cure)	3%
Extrusion Rate (3mm noz. 0.21n/mm <sup>2</sup> )	2 - 6 ml / 10 s
Tensile Strength	1.2N/mm <sup>2</sup> 0.2N/mm <sup>2</sup>
Ultimate Elongation (%)	500 (ISO 8339)
Modulus (N/mm <sup>2</sup> ) At 100% Elongation At 25% Elongation At 100% Elongation	0.18 0.16 0.24
Tear Strength	3.8N/mm <sup>2</sup>
Movement Accommodation	+/- 50%

### 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): 50%  
(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

### Specific Resistances

Mild acids / alkalis at < 10% concentration.  
Resistant to bleach and household cleaners.

### Surface Preparation

The surfaces to be must be clean, dry and free from dust, grease and other contaminants.

Improve adhesion by wiping surface with EVERFLEX PVC SOLVENT CLEANER (pvc) EVERFLEX GLASS CLEANER (glass) or white spirits (painted surfaces).

Fill deep gaps and voids with EVERBUILD EXPANDING FOAM.

### Primer

FOREVER SAFE 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 for aquarium manufacture.
- Do not use on surfaces which bleed oils or plasticizers.
- 10 years guarantee does not apply if used externally.
- Do not use on lead, copper, brass or zinc.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- May stain marble, slate or certain sensitive natural stones.



*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.*