

Technical Data

565 Clean Room Silicone

Superior Anti-Bacterial , Food Safe Silicone



Description

EVERFLEX 565 CLEANROOM SILICONE (replacement for Forever Safe) is a high modulus, FDA approved, neutral cure, low odour silicone sealant that adheres to a wide range of both porous and non-porous surfaces. 565 CLEANROOM SILICONE conforms to the requirements of ISO 11600 F25HM.

Benefits

- FDA Approved (21CFR177.2600 tested by IANESCO France)
- Mould Resistant for up to 10 years (simulated age testing for internal use)
- Antibacterial
- Excellent tooling and slow skinning properties for industrial/large scale applications).
- Excellent adhesion properties to most surfaces including glass, metal, plastics, wood (painted/unpainted) uPVC and Polycarbonate.
- High viscosity non-slump formula.
- Excellent external weathering properties.

Recommended For

- Food preparation areas and refrigeration units
- Medical and sterile areas
- Hospital, Pharmaceutical and laboratory clean room environments
- Perimeter pointing internally and externally of uPVC, Wood and powder coated window frames.
- 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 sealing applications
- Bedding and sealing of I.G units

What is SteriTouch Antibacterial Protection?

565 Clean Room Silicone contains a powerful antibacterial compound called SteriTouch. SteriTouch is designed to reduce the growth of harmful organisms such as bacteria, mould and fungi whilst remaining safe for even the most sensitive of applications. SteriTouch gives the benefit of the highest quality antimicrobial protection which is proven to stop black mould and kill germs such as E-Coli, MRSA and Salmonella making 565 Clean Room Silicone ideal for use in areas subject to high humidity, water contact and areas to which it is crucial that the environment is kept sterile and germ free such as hospitals, kitchens and food storage areas. SteriTouch ensures that hygiene critical areas are kept sterile, clean and free from contaminants from the moment of application and beyond ensuring both product quality and longevity.



Specification Compliances

565 Clean Room Silicone 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.

565 Clean Room Silicone is formulated using a premium quality permanently flexible waterproof 100% Silicone Sealant.

565 Clean Room Silicone is FDA approved.

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.

Shelf Life

Use within 12 months.

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Health & Safety

Consult MSDS for full list of hazards.

Specific Data

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
Specific Gravity	1.33 - 1.37 g/cm³
Cleaning	Uncured Sealant - white spirit. Cured sealant—Everflex Silicone Eater
Maximum Joint Width	50mm
Joint Ratio	Max Depth 50% of joint width
Coverage	@ 11 linear metres 6mm diameter bead
Elongation at break	500-600%
Tensile Modulus at 100% Elongation ISO8339	0.47Mpa
Tensile Adhesion Strength at Break	0.5Mpa
Tensile Elongation at Break ISO8339	>500%
Peel Adhesive Strength	6 KN/m
Elastic Recovery ISO7389	>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 or BOND BREAKING TAPE in cases where there is not enough depth to use 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

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application. Glass, metal and aluminium should be cleaned with a proprietary solvent cleaner prior to application for optimum adhesion. 565 Cleanroom Silicone does not require priming on most surfaces however adhesion tests are recommended prior to full scale application. Where priming is required use Everbuild P1 primer for porous surfaces and NP2 primer for Non-Porous.

Primer

565 Clean Room Silicone 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

- Not for use in conjunction with bitumen or asphalt. Use Weather Mate.
- Do not use for aquarium manufacture, use Aqua Mate.
- Not for use on substrates that may bleed oils, solvent or plasticisers
- Not over paintable
- Not for use in swimming pool areas
- It is the users responsibility to determine suitability for use. If in doubt contact Everbuild Technical Services.

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