

SealPrem Cleanroom Silicone

Product Description

One-part, neutral system sanitary silicone, that cures with the atmospheric moisture producing a flexible rubber with antimicrobial properties. SealPrem Cleanroom Silicone has an excellent adherence without priming to most of materials used in the construction, including non-porous materials: glass, ceramics, metals (aluminium, steel, zinc or copper), varnished or painted woods, plastics. This product maintains its adherence and elasticity properties without ageing staying stable at inclemency. It does not content corrosive or strong smell additives. It does not attack metallic materials like anodized and lacquered aluminium, copper, bronze, zinc.

Features

- Fast curing
- Permanently flexible
- High movement capability
- High mould resistance. Contains fungicide
- Adheres to wide variety of materials
- UV radiation, weather and ageing resistant
- Waterproof
- Low odour. Non-corrosive
- Extremely long service life
- Easy tooling

Typical Applications

- Sealing joints in a cold-storage, clinical rooms, operating theatres, kitchens, bathrooms
- Suitable for sanitary applications and food environment
- Sanitary seals in areas of high humidity such as baths, showers, basins and sanitary ware, kitchens, etc.

	Value
Basis	Neutral alcoxy silicone
Consistency	Thixotropic paste
Specific gravity	Approx. 1.38g/ml ISO2811-1
Tack free time	15-20min (at 23°C; 50% R.H.) OQ.06-internal
Skin forming time	20-40min (at 23°C; 50% R.H.) OQ.16-internal
Curing rate	2.5-3mm/24h OQ.18-internal
Movement capability	±25% ISO11600
Shore A hardness	Approx. 25 ISO868
Application temperature	+5°C to +40°C
Service temperature	-40°C to +150°C
E-modulus*	0.45MPa
Tensile strength*	1.20MPa
Elongation at break*	400%

Premier Sealant Systems Ltd.

T 01724 864 100 | E sales@sealprem.com | www.sealprem.com

Mercia Way, Foxhills Industrial Park, Scunthorpe, DN15 8RE

Registered in Cardiff No. 3000843

Colour	White
Package	300ml cartridge

*ISO 37 (2mm thickness, S2 dumbbells, 7 days, 23°C, 50% R.H.

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperatures, lower humidity or increasing film thickness.

Technical certification:

- ISO 11600-F&G 25LM
- CE Marking: EN 15651-1 F-EXT-INT-CC
- EN 15651-2 G-CC
- EN 15651-3 S, class XS1
- UKCA Marking: BS EN 15651-1 F-EXT-INT-CC
- BS EN 15651-2 G-CC
- BS EN 15651-3 S, class XS1
- French VOC-emission class A+

Installation guidelines

Substrates (joint flanks) must be clean, dry and free from dust, grease and other contaminant which may affect the adhesion. Non-porous surfaces (such as aluminium, glass) should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates (concrete, brickwork) must be mechanically cleaned from loose particles. If necessary, the adjacent surfaces of the joint should be protected with masking tape to avoid staining. Sealprem Cleanroom Silicone adheres without primer to glass, ceramic, anodized aluminum and vitrified surfaces, however, a preliminary adhesion test is recommended on every surface. Sometimes, it may be necessary to treat the joint surfaces with a primer to obtain better adhesion performance.

In wider joints, a backer rod should be used to ensure the sealant joint's correct thickness, shape and to avoid three-sided adhesion. Choose the right backing strip diameter, at least 25% wider than the joint width.

After substrate preparation, apply the sealant in the joint by repeatedly and evenly with a professional caulking gun. Observe the eventually used primer's open time before filling the joint.

The joint should be tooled and smoothed before skin formation. Press the sealant and smooth it ensuring good contact with the surfaces to seal. Use neutral soapy water as a tooling agent. Remove masking tape. Uncured product may be easily removed with solvents such isopropyl alcohol or "white spirit". Cured sealant must be removed mechanically.

Storage:

The shelf life is 12 months in its unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.

Coverage:

Estimated consumption in linear meters per 300 ml. cartridge (approx.):

Joint width (a):	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm	20 mm	25 mm	30 mm
Joint depth (b):									
5 mm	12	10	8	6	5	4	3	2,5	2
8 mm	8	6	5	4	3	2,5	1,8	1,5	1,2
10 mm	6	5	4	3	2,5	2	1,5	1,2	1
12 mm	5	4	3	2,5	2	1,6	1,2	1	0,8
15 mm	4	3,5	2,5	2	1,6	1,3	1	0,8	0,6

Shaded values determine the width to depth recommended ratio.

Other Notes:

Do not use Sealprem Cleanroom Silicone on bituminous substrates or on a building material which might bleed oils, plasticizers or solvents (e.g. natural rubber, chloroprene, EPDM).

There is no adhesion to PE, PP, PTFE (Teflon®). Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.

Sealprem Cleanroom Silicone cannot be overpainted.

Not intended for structural glazing.

Safety:

Use in well ventilated areas and avoid skin and eye contact. Keep out of reach of children. The information regarding the safety of the product is available on safety data sheet (SDS). Before using the product, we recommend reading carefully the SDS and the safety labels.

Please note: The above technical information is given as a guide and is based on recent test data obtained under laboratory conditions. Materials should be fully tested by the end user to establish suitability of the product for the intended application. March 2024

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