



FIX8 Structural Silicone

Revision: 03/2021

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Technical Data:

Base	Silicone
Consistency	Paste
Curing System	Moisture Cure
Colours	White, Black, Light Grey, Antique White
Skin Formation	30 minutes (23°C & 50%R.H)
Tack Free Time	3 hours (23°C & 50%R.H)
Curing Rate	3mm/24 Hrs
Density	1.34 g/cm ³
Shrink	3% (No shrinkage after cure, contains no solvents)
Elongation	300%
Hardness (Shore A)	40 ± 5
	-40°C to 150°C, shortly resistant up to 300°C
Tensile Strength	>1.0 MPa (ISO8339)
Shear Strength	>1.8 MPa (ISO 4587)
Movement Capability	25%

(*) Values may vary depending on environmental conditions

Product:

Fix8 is a high quality Structure Silicone, superior single component high modulus, neutral cure, bonds to nearly all substrates and exhibits excellent physical properties. Suitable for typical sealing and structural bonding including glazing, stainless steel, aluminium, steel, wood, extruded foam, Corian®, PVC, ABS and most plastics including fibreglass substrates and not limited to the above.

Fix8 Structural Silicone displays excellent weatherability and UV resistance curing to a high performance flexible rubber sealant in weatherproofing and structural applications. Fix8 is suitable for glass curtain wall construction.

Characteristics:

- Primerless adhesion on most substrates (except Teflon, PE and PP)
- Excellent UV resistance
- Very good filling capacities
- Neutral cure
- Excellent stability
- Superior weather resistance up to 20 years

- Good compatibility with other sealants
- Permanently elastic
- Colour Fast
- Suitable for marine exposure

Applications:

Installation of glass windows
Sealing of all openings in roof constructions
Sealing and bonding within the Automotive and marine industry
Mounting and sealing of window frames
Bonding and sealing of coachwork within the transportation industry
Underwater bonding of screw in fittings and fixtures.
Can be used to caulk seams and bond PVC synthetic decking.

Packaging:

Colour – White, Black, Lt Grey, Antique White
Packaging – 300mL Cartridge, 600mL Sausages.

Note: The contents contained in this documentation are the result of our experiments and our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the real number of possible applications which are out of our control we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments and compatibility tests.

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Shelf life:

12-15 months from date of production; in unopened packaging stored in a cool and dry place at temperatures between +5°C and 23°C.

Surfaces:

State of Surface: clean, dry, free of dust and grease

Priming: For porous substrates Fix1060 Fixseal Epoxy Sealer or similar may be applied.

Polypropylene; Primer PR20 or flame treatment if unavailable.

Polyethylene; flame treatment of surface.

Non-porous substrates may be cleaned with Methylated Spirits or denatured alcohol cleaner. We recommend compatibility tests to ensure the surface is suitably prepared for bonding.

Application:

Method: Manual or pneumatic caulking gun

Application temperature: +5°C to 40°C

Tooling: Dry tool first to seal the edges, if required then a Mild diluted soapy solution before skin formation can be applied to make smoother.

Joint Dimensions:

Minimal Width: 5mm

Maximum Width: 30mm

Minimum Depth: 2mm

Recommendation: width of joint = 2 x depth

Health- and Safety Recommendation:

Apply the usual industrial hygiene. Wear gloves . Safety Glasses. Volatile compound released during curing, ensure adequate ventilation

Chemical Resistance:

- Good against fresh and salt water, aliphatic solvents, oils, grease, diluted inorganic acids and alkalis.
- Moderate against esters, ketone and aromatics
- Not resistant against immersion in concentrated acids and chlorines, bleach etc.
- When cleaning with strong diluted acids including acetic acids and alkalis based cleaners, ensure the sealant and all other surfaces are wet during the cleaning process prior and during the use of these harsh chemicals, then thoroughly washed away with fresh or salt water. Do not permit the cleaner to dry on any surfaces at any time.

Remarks:

- Fix8 Structural Silicone can not be overpainted
- Fix8 Structural Silicone may discolour with age under certain conditions.
- Fix8 Structural Silicone is chemically neutral (pH=7)
- Fix8 Structural Silicone can be applied to a wide variety of substrates. Due to the fact that the specific properties of substrates will differ from manufacturer to manufacturer we strongly recommend compatibility tests.

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