



Code	Description	Size	Colour
60080	Toptec Industrial Silicone	300ml	Clear
19324	Toptec Industrial Silicone	300ml	Grey
60085	Toptec Industrial Silicone	600ml	Clear

Description

Toptec Industrial Silicone Sealant is a high quality, neutral, elastic one-component silicone based joint sealant.

Characteristics

- Very easy to apply
- Colourfast and UV stable
- Permanently elastic after curing
- Very good adhesion on many materials
- Low modulus
- Corrosion free
- Low odour
- Impervious to mould
- Not paintable

Technical Data

<i>Base:</i>	Polysiloxane
<i>Consistency:</i>	Stable Paste
<i>Curing System:</i>	Moisture Cure
<i>Skin Formation (20°C/65% R.H.):</i>	Ca. 10 min.
<i>Curing Speed (20°C/65% R.H.):</i>	2mm/24h
<i>Hardness(DIN 53505):</i>	25 ± 5 Shore A
<i>Density:</i>	Ca. 1,00g/ml (transp) Ca. 1,26 g/ml (colours)
<i>Elastic recovery (ISO 7389):</i>	>80%
<i>Maximum allowed distortion:</i>	25 %
<i>Temperature resistance:</i>	-60°C to +150°C
<i>Elasticity modulus 100% (DIN 53504):</i>	Ca. 0,40 N/mm ²
<i>Max. tension (DIN 53504):</i>	Ca. 1,35 N/mm ²
<i>Elongation at break (DIN 53504):</i>	>500 %
<i>Application temperature:</i>	5°C to +35°C

*This varies according to ambient conditions such as temperature, humidity, substrate etc

Applications

- To seal horizontal and vertical joints in wall and roof connections
- Sealing between metal components
- Repairing and renovation of roofs and gutters
- Connection and expansion joints at roof works

Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°.

Surfaces

Type:	All usual building substrates, glass, aluminium, wood, plastics, concrete, brick, and ceramic tiles
State of Surface:	Clean, dry, free of dust and grease
Preparation:	The use of Gorilla Primer 150 on porous surfaces and Gorilla 696 Surface Activator on non-porous surfaces will improve the adhesion of Toptec Industrial Silicone Sealant. When glazing clean frame and glass surfaces that come into contact with the silicone sealant.

Toptec recommends preliminary compatibility tests prior to application.

Joint Size

Minimum Width:	5mm
Maximum Width:	30mm
Minimum Depth:	5mm
Recommendation:	2 x depth = width

Glazing Applications:

Top Sealing: min. width 4mm, depth at least 6 mm.
Min. width for connection joints around windows: 10 mm.

Joint Dimensions:	Glazing Applications	Expansion Joints
Min. Width for Joints: 5 mm	Min. Width for Joints: 4 mm	Min. Width for Joints: 5-10 mm
Max. Width for Joints: 30 mm	Max. Width for Connection Joints: 10 mm	Max. Width for Joints: 10-30 mm
Min Depth for Joints: 5 mm	Min Depth for Joints: 6 mm	Min Depth for Joints: ½ the Joint Width
	• See Application Limitations	Shear Joints Min Depth: 5 mm

Application

Method:	Caulking gun
Application temperature:	+5°C until +35°C
Cleaning:	With Toptec Express Cleaner immediately after use
Tooling:	With soapy solution before skin formation
Repair with:	Toptec Industrial Silicone

Application Limitations

- Do not use Toptec Industrial Silicone on natural stones like or similar to marble, granite, sandstones, limestones due to potential for staining.
- Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Toptec Industrial Silicone can be applied to a wide variety of substrates. Due to the fact that specific substrates such as metals, plastics, polycarbonate, etc may differ from manufacturer to manufacturer, we recommend preliminary compatibility tests.
- Not suitable for the bonding of mirrors.
- Not suitable for continuous underwater use or for use in aquariums.
- While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Gorilla 696 Surface Activator is recommended.
- There is no adhesion on PE, PP, PTFE (Teflon) and bituminous substrates.
- Direct contact with the secondary sealing of insulation glass units (IGU's) and the PVB-film of safety or laminated glass must be avoided.
- The mould resistance formula should not replace regular cleaning of the joint. Excessive contamination, deposits of organic debris will stimulate the development of fungal and bacteria growth.

Toptec recommends preliminary compatibility tests on surfaces on which Toptec Industrial Silicone has not been applied previously.

Health and Safety Recommendation

- Apply the usual industrial hygiene
- Please refer to the SDS for more detailed information.

Remark

The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great 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.

If any clarification is required, please contact 0800 TOPTEC or email sales@toptec.co.nz

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