



A brand of MINKON

DATA SHEET

Fortafix High Temperature Adhesives

Product: FLEXSEAL TR – TEMPERATURE RATED SILCONE SEALANT/ ADHESIVE

Principal Characteristics

Flexible elastomeric adhesive sealant to 300°C. Bonds to a wide range of substrate materials.

Flexseal TR is a Temperature Rated Silicone Adhesive and Sealant used for applications where sealing or fixing of materials is required - to form a high heat resistant joint or bond.

Other features include high flexibility, excellent water/weather resistance, fixing of materials with differing thermal expansion characteristics.

Product offers adhesion to many building materials substrates - including glass and other glazed surfaces, PVCu, metals, wood and concrete.

Suitable for bonding, gasketing, thick sections, potting & encapsulation.

Resistant to weathering and ageing – can be used externally.

Black paste. Supplied ready to use in 300 ml cartridges

Maximum Service Temperature: 300°C.

Typical Applications

- Flues
- Ducting
- Electrical Insulation
- Fixing Ceramic Rope
- Gasketing
- Jointing Metals, Glass, Ceramics and Polymers

Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS – Flexseal TR Silicone Sealant/ Adhesive).
- RoHS Compliant.

Storage

Once opened this product is moisture sensitive avoid continuous exposure to air.

Product should be stored in original packaging between 5 - 30°C.

Shelf life – 24 months.

Guidelines for Use

Application

Thoroughly clean and degrease surfaces to be bonded or sealed.

A light surface abrasion of the material to be bonded will increase the surface area available for adhesion and improve mechanical key.

Apply the sealant as supplied to all surfaces to be bonded and complete tooling within 5-10 minutes.

Apply moderate pressure to ensure even anchorage and solid contact of the surfaces to be bonded, so that all surfaces are fully wetted.

Clean any unwanted silicone immediately using xylene and a cloth.

Curing starts at the surface and works inward.

Humidity and ambient temperature can alter curing rate.

Curing Schedule

The curing of this product may vary depending on temperature, humidity, porosity of substrates, glue line thickness and area etc.

A rough guide for typical applications at room temperature and average humidity would be approximately 36-48 hours.

Typical rate of cure: 3-5 mm depth per 24 hours

Typical maximum cure depth: 10 mm

Once cured, the strength of the silicone will continue to increase for up to 7 days.

Curing may be accelerated by the application of gentle heat (do not exceed 70°C).

VOC Content.

1.1 % (weight percent) of components (11 g/l) considered VOC under the:

DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions (integrated pollution prevention and control) repealing European Council Directive 1999/13/EC with effect from 7 January 2014.

1.5 % (weight percent) of components (16 g/l) considered VOC under the:

DIRECTIVE 2004/42/CE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

These VOC assessments are based on the theoretical evaluation of the information provided by our suppliers and the knowledge of our materials. Please note that since we do not specifically analyse our products for total VOC content we cannot guarantee or warrant specific limits.



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Characteristics:

TYPICAL UNCURED PROPERTIES

Property	Value	Test Method/Standard
Specific Gravity	1.04	
Application Rate, ml/10 sec	7-12(at 2.5 BAR)	
Sag	Non sag	ISO 7390
Tooling Time (minutes)	5-20	
Tack Free Time (minutes)	60 - 120	
Full Cure	3-5mm per day 23°C @ 50% rH	
Application temperature	+5°C to +60°C	

TYPICAL CURED PROPERTIES

Property	Value	Test Method/Standard
Hardness, Shore A	25	ISO 868
Tensile Strength at Break	1.7	ISO 37 rod S1
Modulus @ 100% Elongation, MPA	0.5	ISO 37 rod S1
Elongation at Break, %	400	ISO 37 rod S1
Temperature Resistance	-40°C to +300°C	
Recovery 100% Extension	95%	ISO 7389
Water Vapour Permeability (2mm Film) g/M2d	23	
Tear Strength	4.0n/MM	ISO 34, METHOD C