Bostik Bond-Flex 100 Silicone Sealant is a single part, acetoxy type silicone rubber sealant. It cures on exposure to atmospheric moisture to form a resilient highly elastic seal which maintains flexibility over a wide range of temperatures. The sealant is extremely resistant to weathering, ageing and water. Bostik Bond-Flex 100 Silicone Sealant is suitable for general purpose applications where adhesion to non-porous surfaces is required, including sealing metal cladding and curtain walling. Bostik Bond-Flex 100 conforms to ISO 11600 F&G 20 LM. Bostik Bond-Flex 100 contains fungicide.

Features
- Conforms to ISO 11600 F&G 20 LM
- High level of extensibility – over 600%
- Durable waterproof seal
- Flexible at low (-50°C) and high temperatures (+180°C)
- Low shrinkage

Product Characteristics

Colour: White, clear & black
Form: Non-slump paste
Specific gravity (density): 1.035 g/cm³
Composition: Silicone rubber
Packaging: Cartons of 25 x C20 plastic cartridges
Shelf life/storage: At least 24 months from date of manufacture when stored unopened in a cool, dry place within the temperature range +5°C to +25°C and out of direct sunlight. PROTECT FROM FROST

Typical Performance Data (approx.)

Drying time
- Touch: 10 – 20 minutes
- Through: 24 hours (dependent on bead size and humidity – rate of cure is approx 2mm a day at 23°C/55% RH)
Service temperature: -50°C to +180°C
Application temperature: +5°C to +40°C
Coverage: 10 linear metres of 6mm diameter bead per cartridge
Joint movement accommodation: ±25%

Flow: < 2mm
Tensile strength: 1.8 MPa (N/mm²) (DIN 53504) for a 2mm film
Elongation at break: 650% (DIN 53504)
Modulus 100% elongation: 0.3 MPa (N/mm²) (DIN 53504) for a 2mm film
Shore A hardness: 18 (DIN 53505) for a 2mm film
Solvent for cleaning up: White spirit

Directions for use

IMPORTANT
Before embarking on any work involving Bostik Bond-Flex 100 Silicone Sealant, the separate Safety Data Sheet should be carefully studied by those carrying out the work.

1. Surfaces should be clean, dry, firm and free from dust, oil, grease and any loose materials.

Loose and flaking paint should be thoroughly removed before sealing. As paint surfaces vary considerably, it is recommended that a preliminary adhesion test should be carried out before application. When using in remedial applications remove all old silicone first.

2. If required place masking tape along joint edges and remove within 5 minutes of applying the sealant.

3. Cut off the dome at the top of the cartridge, cut the nozzle to the required diameter and then screw it onto the cartridge.

4. Insert the cartridge into a skeleton gun and squeeze the trigger until the sealant appears.

5. Apply ensuring no air is trapped behind the sealant.

NOTE: For conventional construction joints subject to movement, it is important that the dimensional proportions of the joint are correct. For Bostik Bond-Flex 100:
Width: Minimum 4mm
Maximum 25mm
Depth: Minimum 5mm  
Maximum 10mm  

Ideally the width of the joint should be twice the depth of the joint.

When using Bostik Bond-Flex 100 for sealing typical connection joints a suitable inert filling material such as closed cell polythene foam should be used to prevent sealant adhesion to the bottom of the joint, thus avoiding excess tension of the sealant.

This sealant emits small quantities of acetic acid during curing. It must therefore only be applied in well ventilated conditions.

6. The sealant surface can be tooled immediately to a smooth finish using a toothing stick or trowel dipped in diluted detergent. Do not use a wetted finger.

7. Clean application equipment and remove excess uncured sealant with white spirit and cured sealant by abrasion.

Restrictions on Use

Bostik Bond-Flex 100 should not be used on substrates such as concrete, marble or similar materials e.g. granite as the product releases acetic acid during curing and may cause staining. It also is not suitable for use on polyethylene, polypropylene, Teflon and bituminous surfaces.

Bostik Bond-Flex 100 should not be used in contact with metals such as lead, copper, galvanised steel, brass or zinc.

Bostik Bond-Flex 100 may be discoloured in contact with organic elastomers such as EPDM and neoprene.

Bostik Bond-Flex 100 is not recommended for sealing of aquaria or for continuous water immersion, or for structural glazing.

Precautions in Use

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate health and safety data sheet for Bostik Bond-Flex 100 Silicone Sealant.

Disclaimer - please read carefully

This disclaimer is issued by Bostik Limited ("the Company") and applies to the use of any products supplied by the Company ("the Products") displayed on this Technical Data Sheet ("TDS"). Please read this disclaimer carefully before using any of the Products. Using this TDS and/or the Product constitutes your acceptance of this disclaimer. Its contents shall prevail over any directions of use and any disclaimer and/or exclusion or limitation of liability of the Company which may appear on the packaging of the Products.

This disclaimer sets out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and sub-contractors) to any user of the Products ("Product User") in respect of any use made or resale by the Product User of any of the Products in this TDS.

This disclaimer does not affect the Company's liability for death or personal injury arising from the Company's negligence in respect of the Products, nor its liability for fraud, or fraudulent misrepresentation, nor any other liability which cannot be excluded or limited under applicable law.

The Company's total liability however arising and whether caused by tort (including negligence and breach of statutory duty), breach of contract or otherwise, arising in connection with the use made or resale by the Product User of any of the Products in this TDS shall be limited to the price paid for the Product by the Product User.

The Company shall not be liable to the Product User for any pure economic loss, loss of profit, loss of business, depletion of goodwill or otherwise, in each case whether direct, indirect or consequential, or any claims (including in respect of personal injury insofar as not caused by the Company's negligence) or consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the use made or resale by the Product User of any of the Products in this TDS.

The Company shall not be liable to the Product User in relation to any loss for any use which is inappropriate or use which is otherwise than in accordance with the relevant instructions for use of the Products in this TDS on or the Product. Product Users are advised to confirm the suitability of the Products by their own tests.

This TDS covers just one of a large range of products supplied by the Company. Full information on these products and advice on application is freely available from our fully trained staff throughout the country. In addition, specialist technical advice is available from our Technical Services Department. This TDS supersedes all previous TDSs relating to the Products, and users of it must ensure that it is the current issue. Destroy all previous TDSs, and if in any doubt, contact the Company, quoting the code number in the top right hand corner on the front of this document.