Prime-Bond®
Multi Purpose Adhesives

AQH Import & Export (Pty) Ltd
t/a Prime-Bond

TDS010/23

Technical Data Sheet

TYPE: PB9

PRODUCTION DESCRIPTION

PB5 Silicone Flange Sealant, medium viscosity, high strength, high flexibility, and reliable adhesion. Excellent adhesion to oil surfaces. Suitable for sealing joint surface of all kind's machineries.

TYPICAL APPLICATIONS

•Oil pans
•Transmission case
•Automotive intake manifolds
•Replace pre-formed gasket, improve the high temperature sealing between metal and gasket
•Sealing for general mechanical equipment

UNCURED PROPERTIES

Base Resin	Poly(dimethyl)siloxane
Color	Silver Black
Chemical Type	Oxime silicone
Viscosity (cps @ 23°C)	Thixotropic Paste
Cure Speed (Tack Free Time/Full)	2~20min/24h(≥2mm)
Specific Gravity (g/cm³ @ 23°C)	1.10

★Cured Specifications: Cure speed will vary with temperature, relative humidity, depth of material and presence of moisture.

CURED PROPERTIES

Measured on cured sheets ~2mm. Cured @ 23±2℃, 50±5%RH for 7 days, tested at 23±2℃.

Operating Temperature Range(°C)	−50~260
Hardness (Shore A) (GB/T 531)	35
Elongation at break (%)(GB/T 528)	250
Tensile Strength (MPa) (GB/T 528)	1.7

Heat aging property(heat aging at 175℃ for 168h)

Elongation at break (%)(GB/T 528)	190
Tensile Strength (MPa) (GB/T 528)	1.7

Oil Resistance (immersion in 15W30 oil at 150℃ for 100h)

Elongation at break (%)(GB/T 528)	280
Tensile Strength (MPa)(GB/T 528)	1.5

APPLICATION METHOD

a) For best result, clean and dry the surfaces.
b) Cut nozzle to desired size, then insert into the caulking gun.
c) Apply a continuous and even bead of silicon to one surface, surround all bolt holes.
d) Assemble parts immediately. Remove excess with knife at once.
e) Use up as much as possible. If some material remains, extrude cured part when ready to reuse.

STORAGE AND SHELF LIFE

Product shall be ideally store in a cool, dry area in unopened containers.

CAUTION!

a) Allow adequate ventilation when using.
b) Avoid prolonged skin contact.
c) In case of eye contact, flush with water and seek medical attention.
d) This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. **e)** Keep away from children.

For complete safety and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product.

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Prime-Bond is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.