Prime-Bond®
Multi Purpose Adhesives

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

TDS004/23

Technical Data Sheet

TYPE: PB104

DESCRIPTION

PB14 – PB17 Acetic Silicone Sealant with outstanding adhesion that provides a reliable seal in weather-prone areas like windows, doors, basements, siding, and attics. Ideal for exterior weatherproofing projects, this durable sealant is 100% waterproof, water-ready in as little as 30 minutes, and offers 50% joint movement capability to withstand extreme expansion or contraction associated with temperature fluctuations without cracking, shrinking, breaking down or washing away. This Sealant has excellent mildew resistance.

BENIFITS

- One-component ready to use
- Excellent adhesion, bonds to many substrates without priming
- Fast Cure - Move assembled or sealed parts quickly
- excellent weatherability
- Contains an-microbial additive for mold resistance.
- Resistant to UV, ozone, and temperature extremes- Excellent mildew resistance

APPLICATIONS

- Sealing and glazing of windows, doors and skylights
- Conventional glazing and storefronts
- HVAC, plumbing, roofing
- Sealing trucks, trailers and RVs
- Marine applications
- Appliance assembly

TECHNICAL DATA

Base	Acetoxy Silicone
Curing mechanism	(air) moisture-curing
Appearance	Clear\Black\White Paste
Components	One-Component
Smell	Acetic acid/ Vinegar

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Items	Standard	Value
TYPICAL PROPERTIES OF UNCURED MATERIALS		
Skin forming time	GB/13477	5~15
Extrusion rate（400ml 2 mm nozzle 45 psi, s)	ISO 8394-2	~89
Density (g/cm³)	GB/T 13477.2	-0.99
Cure Rate (mm/24H)	ISO 19861	≥3
Non-Volatile Materials (%)	GB/T 2793	~80%
Slump (mm)	ISO 7390	0
TYPICAL PROPERTIES OF CURED MATERIALS Cured for 7 days at 23 ºC and 50% RH		
Movement capability	ISO 11600	±25%
Modulus at 100 % elongation	ISO 37	1.2MPa
Elongation at break	ISO 37	~380%
Hardness Shore A	ISO 7619-1	~30
Tensile strength	ISO 37	2.0Mpa
Application Temperature (product only)/5~35℃		
Service temperature/-50~200℃ Mildew resistance/Excellent		

COVERAGE

For a 10.1 fl. oz. (300 ml) cartridge:
- A 3/16” (5 mm) bead extrudes approx. 51 ft. (15.5 m)
- A 3/8” (9.5 mm) bead extrudes approx. 13.7 ft. (4.2 m)

For a 2.7 fl. oz. (80 ml) squeeze tube:
- A 3/16” (5 mm) bead extrudes approx. 13 ft. (3.8 m)
- A 3/8” (9.5 mm) bead extrudes approx. 3.7 ft. (1.0 m)

DIRECTIONS FOR USE

Processing:

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material such as dust, dirt, rust, oil and other contaminants. Non-porous substrates should be cleaned with a solvent and a clean, lint-free, coon cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth.

For application from cartridges cut thread open, fix nozzle on top and cut to required bead size. The sealant can be applied in beads or layers. It requires moisture in order to cure.

The curing me can take longer at lower temperatures, lower humidity or by low volume of air exchange.

Adhesion:

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PB14 – PB17 exhibits excellent primerless adhesion to many non-porous siliceous materials, e.g. glass, les, ceramics, enamel, glazed les and clinker varnished or painted wood as well as selected plastics and coatings. Users must carry out their own tests due to the great variety of substances. The adhesion can be improved in many cases by pretreatment of the substrates with a primer. If adhesion difficulties arise please contact our technical service.

Limitations:

It is the user's responsibility to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant

like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials Prime-Bond cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests. The time until complete curing may be extended at lower temperature, lower humidity, increasing film thickness or by low volume of air exchange. Otherwise, water or a diluted solution of a little neutral soap or alcohol in water should be sparingly applied.

Removal

Uncured sealant may be removed from tools and equipment with solvents such as isopropyl alcohol or xylene if cleaned before sealant has begun to cure. Strictly follow solvent manufacturer's instructions for use and warning statements. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with soap and water immediately after use. Do not use solvents on skin!

PACKING SPECIFICATION



300ml/cartridge

Colors Black White Clear

STORAGE AND SHELF LIFE

Storage	Packaging	Shelf Life
Store the unopened product in a cool, dry, well ventilated location away from sources of heat. Optimal storage temperatures should range between 10°C (50°F) and 32°C (90°F). Product removed from the containers during use should not be returned to original containers in order to avoid potential contamination.	85ml/squeeze tube	12 months
	300ml/cartridge	12 months
	200kg/Drum	12 months

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SAFETY RECOMMENDATIONS

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

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CONVERSIONS (°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm^2 x145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in N·m x 0.738 = lb· N·mm x 0.142 = oz·in mPa·s = cP