

## TYPE: PB14 – PB17

### 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<br>Paste |
| Components       | One-Component              |
| Smell            | Acetic acid/ Vinegar       |

| Items                                          | Standard     | Value     |
|------------------------------------------------|--------------|-----------|
| <b>TYPICAL PROPERTIES OF UNCURED MATERIALS</b> |              |           |
| Skin forming time                              | GB/13477     | 5~15      |
| Extrusion rate (400ml 2 mm nozzle 45 psi, s)   | ISO 8394-2   | ~89       |
| Density (g/cm <sup>3</sup> )                   | 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         |
| <b>TYPICAL PROPERTIES OF CURED MATERIALS</b>   |              |           |
| Cured for 7 days at 23 °C 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°C    |
| Service temperature                            | /            | -50~200°C |
| 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:

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

### TDS004/23

## Technical Data Sheet

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  |

### 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.

## CONVERSIONS

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\mu\text{m} / 25.4 = \text{mil}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{MPa} \times 145 = \text{psi}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{N}\cdot\text{mm}$$

$$\times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$