



# Technical Data Sheet

## BC Tec PS PG

### Two-Component Polysulfide Sealant

#### 1). Description

BC Tec PS PG is a two-component, high-performance, gun-grade polysulfide sealant formulated to provide long-term, flexible joint sealing in both static and dynamic joints. It cures chemically to form a tough, elastic seal with excellent resistance to chemicals, weathering, and movement.

The product maintains a low modulus of elasticity even after prolonged exposure, preventing adhesive or cohesive failure commonly observed with aging sealants.

#### 2). Typical Uses

BC Tec PS PG is recommended for sealing:

- Expansion and contraction joints in buildings
- Precast and tilt-up panels
- Curtain wall joints
- Walkways, podiums, shopping centers
- Concrete pavement & traffic areas
- Swimming pool decks and frequently-watered areas
- Planters, terraces, and coping joints
- Any joint subject to water ingress, dust, and structural movement

#### 3). Features & Benefits

- Excellent elasticity with high movement accommodation
- Durable under severe weather and environmental exposure
- Excellent chemical resistance (alkalis, acids, diesel, etc.)
- Prevents water ingress and subsequent soil erosion
- Resistant to aging, cracking, and hardening
- Easy to apply using caulking gun or pumping equipment
- Suitable for horizontal & vertical joints



#### 4). Technical Properties

Property	Test Method	Value
Pot Life @ 25°C	—	2 hours
Tack-Free Time @ 25°C, 50% RH	ASTM C920	12 hours
Full Cure @ 25°C	—	24 hours
Tensile Strength	ASTM D412	80 psi
Elongation	ASTM D412	550%
Peel Strength (Concrete)	ASTM D794	16 pli – cohesive failure
Hardness (Shore A)	ASTM D2240	25 ± 5
Temperature Service Range	—	-40°C to +79°C
Chemical Resistance	—	Resistant to alkalis, acids, diesel

#### 5). Joint Design Guidelines

- Minimum joint width must be 4× expected movement.
- Use polyethylene or polyurethane foam backer rod.
- Backer rods treated with oil, grease, or bitumen must not be used.

##### Coverage – Linear Meters per Liter

Joint Width (mm)	6	12	15	18	22	25
Joint Depth (mm)						
6	19	14	11	7	—	—
12	7	6	5	4	—	—
15	—	4.4	3.7	3.0	2.7	—
18	—	3.1	2.5	2.2	2.1	—



## 6). Surface Preparation

- All surfaces must be clean, dry, and sound.
- Remove dust, oil, grease, laitance, curing compounds, old sealants, or loose materials.
- Concrete: sand-blasting recommended for best results.
- For non-porous substrates (glass, metal): clean with MEK or toluene.
- Apply BC Epoxy Primer (or approved polysulfide primer) on all porous surfaces.

### Mixing

- Add Part B (curing agent, 0.2 kg) to Part A (base compound, 4.6 kg).
- Mix for 5 minutes using a slow-speed drill until uniform in color and consistency.

### Application

- Apply using caulking gun, hand tool, or dispensing/pumping equipment.
- Press sealant firmly into joint.
- Tool the surface for smooth finishing and proper contact.
- Protect freshly installed sealant from dust and water until cured.

## 7). Packing

4.8 kg Set (A: 4.6 kg + B: 0.2 kg)

## 8). Storage & Shelf Life

- Store in unopened containers in a cool, dry, shaded area.
- Temperature: 5°C – 25°C
- 12 months from production date if stored as recommended.

## 9). Health & Safety

- Avoid contact with skin and eyes.
- Ensure good ventilation during mixing and application.
- Wear protective gloves and goggles.
- Refer to product SDS for full safety instructions.

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

