



Technical Data Sheet

BC TEC-30

One-Component Polyurethane Joint Sealant

1. Product Description

BC TEC-30 is a high-performance, one-component, non-sag, gun-grade polyurethane joint sealant. It cures by atmospheric moisture to form a durable, elastic, and tough joint seal. The cured sealant exhibits excellent recovery, weather resistance, and long-term performance across a wide service temperature range.

2. Features & Benefits

- One-component, ready-to-use formulation
- Excellent adhesion to concrete, masonry, metals, and common construction substrates
- Highly elastic with excellent movement capability
- Resistant to chemicals, microorganisms, weathering & UV
- Suitable for interior and exterior applications
- Non-sag—suitable for vertical and horizontal joints
- Durable performance across wide temperature ranges

3. Typical Applications

Suitable for sealing movement and construction joints in:

- Precast concrete panels
- Balcony and parapet joints
- Bridge culverts & retaining walls
- External façade joints
- Window and door perimeter sealing
- Wall–floor joints, skirting joints



4. Technical Data

| Property | Typical Value | Test Method |
|-------------------------------|-----------------------|-------------|
| Rheology (Sag Test) | ≤ 2 mm (Non-sag) | ASTM C639 |
| Skin Time* | 2–4 hours | ASTM C679 |
| Curing Rate* | Approx. 2–3 mm/day | Internal |
| Hardness (Shore A) | 30–40 | ASTM D2240 |
| Tensile Strength | 1.4 N/mm ² | ASTM D412 |
| Elongation at Break | > 350% | ASTM D412 |
| Adhesion in Peel (Mortar) | 27 N | ASTM C794 |
| Accelerated Weathering | No surface cracking | ASTM C793 |
| Staining / Color Change | No staining on mortar | ASTM C510 |
| Movement Accommodation Factor | 25% | ASTM C719 |
| VOC Content | 0.339 g/L | GC-FID |
| Service Temperature | –40°C to +90°C | — |
| Application Temperature | +5°C to +40°C | — |

5. Surface Preparation

- Substrate must be clean, dry, sound, and free from dust, oil, grease, curing compounds, and contaminants.
- Remove loose materials mechanically (grinding, brushing, or shotblasting).
- For porous substrates, a primer may be required depending on site conditions.
- Ensure joints are correctly sized and backer rod is installed where required.



6. Application Instructions

1. Insert appropriate backer rod or bond-breaker tape.
2. Load sausage into standard caulking gun.
3. Apply sealant evenly into joint ensuring complete contact with joint faces.
4. Tool the sealant to ensure proper adhesion and smooth finish.
5. Protect from dust and water until skin formation.

7. Packaging

- 600 ml aluminum sausages

8. Colors

- Dark Grey, White, Beige
- Special colors available on request

9. Storage

- Store in original, unopened packaging in a cool, dry place at temperatures below 25°C.
- Shelf Life: 12 Months

10. Health & Safety

- Avoid contact with skin and eyes.
- Use gloves and adequate ventilation.
- Refer to Safety Data Sheet (SDS) for detailed information.

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.

