

Technical Data Sheet

BC Tec Acrylic Single-Component Acrylic Sealant

1. Description

BC Tec Acrylic is a single-component, water-based, non-toxic, non-flammable and odorless acrylic latex sealant. It cures to a durable plastic-elastic rubber-like film with excellent adhesion to common construction substrates. Supplied as a gun-grade thixotropic paste, the product skins quickly and forms a long-lasting seal for low-movement joints in both interior and exterior applications. BC Tec Acrylic is designed to seal joints, gaps, and cracks in concrete, mortars, plaster, wood, metals, roofing components, and general building substrates.

2. Typical Uses

BC Tec Acrylic is suitable for:

- Sealing low-movement joints in concrete, plaster, masonry, asbestos cement, wood, aluminum and steel.
- Internal & external window and door frame joints.
- Cracks in walls and ceilings.
- Sealing joints between roof tiles and skirting.
- Air-conditioning duct sealing.
- Aluminum sheet joints and roof-wall interface sealing.

3. Advantages

- Single-component, ready to use.
- Water-based, non-flammable and environmentally friendly.
- Excellent weather durability.
- Good adhesion to a wide variety of substrates.
- Paintable after curing.
- Easy application by caulking gun or putty knife.



4. Technical Properties

Property	Value
Appearance/Color	White, Grey, Black
Consistency	Thixotropic gun-grade paste
Density	~1.45 ± 0.05 kg/L
Skin Formation Time	20–30 minutes (25°C, 50% RH)
Curing Mechanism	Water evaporation
Movement Capability	Low movement joints
Service Temperature	-10°C to +70°C
Application Temperature	+5°C to +40°C
Solid Content	High polymer solids
Standards	ASTM C 834 compliant

5. Surface Preparation

- All surfaces must be clean, dry, sound, and free from dust, dirt, oil, grease, loose particles, or old paint.
- Mask both sides of the joint to maintain clean lines.
- For porous, dusty, or weak substrates, prime using BC Tec Acrylic diluted with water (1:3) and allow to dry.
- Insert suitable backing material (polyethylene or PU foam rod).

6. Application

- Apply using a standard caulking gun or putty knife.
- Press the sealant firmly into the joint ensuring full contact with joint sides.
- Tool the surface with a damp spatula for smooth finish.
- Do not apply during rainfall or when substrate is wet.
- Clean tools immediately with clean water before the material dries.



7. Limitations

- Not recommended for continuously submerged areas or below-grade waterproofing.
- Not suitable for heavy-traffic floor joints.
- Do not apply on wet, frozen, or very cold surfaces.

8. Coverage

Coverage varies depending on joint size.

Typical consumption per 20 kg pail: varies by bead diameter.

9. Packaging

20 kg Pail

10. Storage & Shelf Life

- Store tightly sealed in original containers under dry, shaded conditions.
- Protect from freezing temperatures.
- Shelf life: 12 months from date of production when stored as recommended.

11. Health & Safety

- Use gloves and avoid direct contact with skin or eyes.
- Wash hands after use.
- For more details, refer to the Material Safety Data Sheet (MSDS).

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.

