

TECHNICAL DATA SHEET

BondPro™ Construction Polyurethane Sealant — Professional Grade

Professional Grade Construction Polyurethane Sealant — Interior & Exterior Use

PRODUCT DESCRIPTION

BondPro™ Construction Polyurethane Sealant is a one-component, moisture-curing sealant designed for permanent elastic bonding and sealing in construction and industrial applications. This professional-grade formula delivers outstanding adhesion, long-term flexibility, and excellent resistance to weather and UV exposure. Its non-sag properties make it ideal for vertical, horizontal, and overhead applications on a wide variety of substrates.

KEY FEATURES & BENEFITS

- ✓ **Outstanding Adhesion** — Bonds strongly to concrete, metal, wood, masonry, PVC, aluminum, and stone
- ✓ **Long-Term Flexibility** — Maintains elasticity for dynamic joint movement and vibration resistance
- ✓ **Weather & UV Resistant** — Excellent durability for interior and exterior applications
- ✓ **Paintable & Waterproof** — Can be painted after curing; provides reliable moisture barrier
- ✓ **Industrial Strength Formula** — High-performance for demanding commercial and industrial projects
- ✓ **Non-Sag Formula** — Ideal for vertical, horizontal, and overhead applications without slumping
- ✓ **Interior & Exterior Use** — Versatile for all construction environments

RECOMMENDED APPLICATIONS

- Window & Door Frames
- Masonry & Siding

- Concrete Joints
- General Construction

- Roofing
- Industrial

TECHNICAL PROPERTIES (Typical Values)

Values are typical and based on standard laboratory testing at 23°C / 50% RH. Actual results may vary depending on application conditions, substrate, and joint design. Always conduct project-specific testing.

Property	Typical Value	Notes / Standard
Base / Chemistry	1-Component Polyurethane	Moisture-curing
Consistency	Non-sag paste (gun-grade)	Excellent for vertical/overhead use
Skin Formation Time	45 – 90 minutes	@ 23°C / 50% RH
Curing Rate	Approx. 3 mm per 24 hours	@ 23°C / 50% RH
Shore A Hardness (cured)	30 – 45	After 14–21 days full cure
Tensile Strength	> 1.5 MPa (≈ 220 psi)	Typical for high-performance PU sealants
Elongation at Break	> 500%	High elasticity for movement joints
Movement Capability	±25% (Class 25)	Suitable for dynamic joints (ASTM C920)
Service Temperature	-40°C to +90°C (-40°F to +194°F)	Cured sealant
Application Temperature	+5°C to +35°C (+40°F to +95°F)	Substrate & ambient
Paintability	Yes	After full cure (test first)
UV / Weather Resistance	Excellent	Long-term exterior durability

Water Resistance	Excellent	Waterproof when fully cured
Adhesion	Outstanding (primerless on most substrates)	Concrete, metal, wood, masonry, PVC, aluminum, stone

APPLICATION GUIDELINES

Surface Preparation

Surfaces must be clean, dry, sound, and free from dust, oil, grease, laitance, loose particles, or any contaminants that may impair adhesion. For best results on porous substrates, ensure they are fully cured and dry. On non-porous surfaces (metal, glass, etc.), degrease with appropriate cleaner. A primer may be recommended for certain substrates or high-movement joints — contact technical support for guidance.

Application

1. Cut the cartridge nozzle to the desired bead size and puncture the inner seal.
2. Apply using a standard caulking gun in a continuous, uniform bead.
3. Tool the sealant immediately with a spatula or tooling tool for a smooth finish and to ensure good contact.
4. Protect the fresh sealant from rain, dust, and traffic until a skin has formed (typically 45–90 min).
5. Full cure typically occurs within 24 hours depending on joint depth, temperature, and humidity.

Joint Design

For optimal performance, maintain proper joint width-to-depth ratio (typically 2:1). Minimum joint width 6 mm (1/4"), maximum recommended 25–30 mm depending on movement. Use backer rod for deeper joints to control depth and prevent three-sided adhesion.

PACKAGING, STORAGE & SHELF LIFE

Packaging	300 mL (10.14 fl oz) cartridges Contractor Pack: 12 tubes per case Color: Black
Storage	Store in a cool, dry place away from direct sunlight and heat sources. Keep cartridges sealed until use.
Shelf Life	12 months from date of manufacture when stored properly in unopened original packaging.

LIMITATIONS & IMPORTANT NOTES

- Not recommended for continuous immersion in water or below-grade applications without specific testing.
- Not suitable for use on bituminous surfaces or where high levels of plasticizer migration may occur.
- Avoid application in confined spaces without adequate ventilation during curing (releases small amounts of CO₂).
- Always perform adhesion tests on actual project substrates before full-scale application.
- Technical data represents typical values obtained under controlled laboratory conditions. Field results may vary.
- This document does not constitute a specification. For project specifications or custom formulations, contact BondPro.

CONTACT US

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