

BTL BIT-BLOCK

Elastomeric Hot-Applied Joint Sealant

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REV 05



APPLICATIONS



THE PRODUCT

BTL BIT-BLOCK is a single-component, hot-applied elastomeric sealant formulated for sealing expansion and construction joints in concrete pavements and slabs.

When applied, it forms a monolithic film that adheres strongly to a wide range of sound substrates - vertical and horizontal - preventing any lateral migration of water in case of mechanical damage.

USES

BTL BIT-BLOCK is designed for:

- Expansion and construction joints in concrete roads, airport runways, bridges, and industrial floors.
- Horizontal joints exposed to continuous movement and traffic.
- Projects requiring a long-lasting, hot-poured sealant for harsh climates.

Also, BTL BIT-BLOCK 's high solids content and robust adhesion make it ideal for heavy-duty waterproofing applications, including split-slab decks, roof gardens, podiums, parking decks and green roof systems.

BENEFITS

- ✓ **Monolithic System:** Seamless, Pourable and self-leveling consistency.
- ✓ **Superior Adhesion:** Bonds firmly to concrete, metal, and masonry surfaces for watertight integrity.
- ✓ **High Flexibility & Elongation:** Withstands structural movement and thermal expansion without cracking
- ✓ **Excellent Chemical Resistance:** Resistant to mild acids, salts, and fertilizers—ideal for exposed soil or landscaped areas.
- ✓ **Fast Curing:** Enables rapid project completion with quick set-up time.

SPECIFICATIONS

Property	Standard	Unit	BTL BIT-BLOCK
Specific Gravity	ASTM D792	-	1.15 ± 0.1
Solids Content	ASTM D1644	%	100
Penetration (1/10 mm) @77°F @122°F	ASTM D5329	-	72 135
Flash Point	ASTM D92	°C	240
Water Vapor Permeance	ASTM E96 (E)	perms	0.012
Elongation	ASTM D5329	%	>1,000
Adhesion	ASTM D5329	-	Pass
VOC	ASTM D2369	g/L	11
Minimum Application Temperature	-	°F	0
Resiliency	ASTM D3405	%	>60
Acid Resistance	ASTM D896	-	50% H ₂ SO ₄ – No effect
Sodium Chloride Resistance	ASTM D896	-	20% NaCl – No effect
Fertilizer Resistance	ASTM D896	-	30/10/10 – No effect

ADDITIONAL INFORMATION

Handling and storage

BTL BIT-BLOCK is supplied in 15Kg metal pails. Store in a dry, shaded area below 35 °C. Shelf life – 12 months in original sealed container.

Color: Black.

Installation

Surface Preparation

Concrete must be structurally sound, dry, and free from dust, dirt, oils, curing agents, or laitance.

In case of sealing joints, ensure all joints are clean, dry, and free from dust, oil, grease, or loose debris. Remove any curing compounds or release agents.

Priming

Apply BTL BIT-PRIME by brush or spray. Allow to dry completely before applying the sealant. Do not exceed 24 hours between priming and sealing.

Heating

Melt BTL BIT-BLOCK in a thermostatically controlled, indirectly heated kettle with gentle stirring. Heat to 170–190 °C — avoid overheating or repeated reheating.

Application

Pour or extrude the molten sealant into the prepared joint to the required depth, keeping it slightly recessed (\approx 3 mm below surface level).

BTL BIT-BLOCK can be applied in two coats—each \approx 2.5mm thick—with BTL Reinforcing Fabric embedded between coats.

Coverage

Depends on joint width and depth — approximately 9–10 linear meters per liter at a 25 × 10 mm joint.

Cleaning

Clean tools and equipment immediately after use with xylene, acetone, or an approved solvent.

Health & Safety

Use only in well-ventilated areas. Avoid inhalation of vapors and contact with skin or eyes. Wear gloves and protective clothing.

Not recommended for use over lightweight or insulating concrete unless approved by BTL technical service.

CERTIFICATION

BTL BIT-BOARD Conforms to ASTM D5329 and related international standards for hot-applied sealants.

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BTL reserves the right to modify the technical data in this specification sheet, which is based on current production without prior warning. All indicators in this specification sheet are based upon our experience and current working practices.