

Butyl Rubber Sealant for All Precast Concrete Structures - Meets ASTM C990



PRODUCT APPLICATIONS

For concrete joints in: Manholes, Concrete Pipe, Vaults, Box Culverts, Septic Tanks, and Vertical Panel Structures. **Not intended for expansion joints or joints that move.**

SEALING PROPERTIES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to +49°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean dry surfaces.
- Greater cohesive and adhesive strengths.
- Sealed joints will not shrink, harden or oxidize upon aging.
- Controlled flow resistance for application ease.
- ConSeal CS-102 meets or exceeds all of the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C990.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.

PHYSICAL PROPERTIES & CHEMICAL COMPOSITION

| Description | Test Method | Spec (ASTM C990) | CS-102 |
|---|-------------|--------------------|---------------|
| Color | | | Black |
| Specific Gravity, 77°F (25°C) | ASTM D71 | 1.15–1.40 | 1.20–1.30 |
| Ductility, 77°F (25°C) | ASTM D113 | 5.0 cm min. | 6 cm |
| Penetration, cone 77°F (25°C), 150 gm, 5 sec. | ASTM D217 | 55–120 dmm | 55–60 dmm |
| Flash Point, C.O.C. | ASTM D92 | 350°F (177°C) min. | 375°F (191°C) |
| Fire Point, C.O.C. | ASTM D92 | 375°F (191°C) min. | 475°F (246°C) |
| Hydrocarbon blend content, % by weight | ASTM D297 | 50% min. | 51% |
| Inert material filler, % by weight | AASHTO T111 | 30% min. | 35% |
| Volatile Matter, % by weight | ASTM D6 | 3% max. | 1.2% |

IMMERSION TESTING

30-Day Immersion Testing: No visible deterioration when tested in 5% Caustic Potash (Potassium Hydroxide), 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide.

One Year Immersion Testing: No visible deterioration when tested in 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide, and 5% Potassium Hydroxide.

INSTALLATION GUIDELINES

The following procedures should be followed for optimum sealant performance.

- Clean the upper and lower joint surface with a stiff bristle brush.
- Remove any dirt, debris, flashing, or concrete high points, which could keep the joint from coming together.
- ConSeal recommends the use of surface primers, as primers improve adhesion. When using a primer, allow the primer to dry before placing sealant.
- ConSeal primers are specifically designed for use with ConSeal products. Contact ConSeal for the best primer for the projects specific application.
- **DO NOT PLACE ANY JOINTS WITHIN 12" OF A CORNER.**
- Join the sealant into one continuous strand by kneading the ends together where they meet. **Do not stretch the sealant.**
- A minimum compression of 50% is required. Greater than 50% compression is optimal. It may take 15-20 minutes for the sealant to fully compress depending on the ambient temperature and the weight being applied.

Reference Installation Instructions for **"Butyl Sealing Tapes"** for more detailed instructions.

LIMITED WARRANTY

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