

## Bituminous/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 use in expansion joints or joints that move.**



### SEALING PROPERTIES

- Provides permanently pliable 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-102B 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                                   | Spec               | Required   | CS-102B   |
|-----------------------------------------------|--------------------|------------|-----------|
| Color                                         |                    |            | Black     |
| Specific Gravity, 77°F (25°C)                 | <b>ASTM D71</b>    | 1.15-1.50  | 1.25      |
| Ductility, 77°F (25°C)                        | <b>ASTM D113</b>   | 5.0 min.   | 6         |
| Penetration, cone 77°F (25°C), 150 gm, 5 sec. | <b>ASTM D217</b>   | 55-100 dmm | 55-60 dmm |
| Flash Point, C.O.C., °F                       | <b>ASTM D92</b>    | 350°F min. | 375°F     |
| Fire Point, C.O.C., °F                        | <b>ASTM D92</b>    | 375°F min. | 475°F     |
| Hydrocarbon blend content, % by weight        | <b>ASTM D297</b>   | 50% min.   | 51%       |
| Inert material filler, % by weight            | <b>AASHTO T111</b> | 30% min.   | 35%       |
| Volatile Mater, % by weight                   | <b>ASTM D6</b>     | 2% max.    | 1.2%      |

### IMMERSION TESTING

**30-Day Immersion Testing:** No visible deterioration when tested in 5% Caustic Potash, 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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