

Don't Just Seal It, ConSeal It!

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

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 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 the hydrostatic performance requirement as set forth in ASTM C990 section 10.1.
(Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)
- ConSeal CS-102 meets or exceeds all of the requirements of Federal Specification SS-S-210 (210-A), and AASHTO M-198B.
- 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-102
Color			Black
Specific Gravity, 77°F (25°C)	ASTM D71	1.15-1.50	1.25
Ductility, 77°F (25°C)	ASTM D113	5.0 min.	10
Penetration, cone 77°F (25°C), 150 gm, 5 sec.	ASTM D217	55-100 dmm	55-60 dmm
Flash Point, C.O.C., °F	ASTM D92	350°F min.	375°F
Fire Point, C.O.C., °F	ASTM D92	375°F min.	475°F
Hydrocarbon plastic content, % by weight	ASTM D297	50% min.	51%
Inert material filler, % by weight	AASHTO T111	30% min.	35%
Volatile Mater, % by weight	ASTM D6	3% 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.
- If necessary, a joint primer can be applied to improve sealant adhesion. Allow the primer to dry before placing sealant.
- 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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