

# All Weather, 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 pliable watertight joints.
- Low to high temperature workability: 0°F to 120°F (-18°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-202 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-202
Color			Black
Specific Gravity, 77°F (25°C)	ASTM D71	1.15–1.40	1.15–1.20
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	60–65 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.	410°F (210°C)
Hydrocarbon blend content, % by weight	ASTM D297	50% min.	52%
Inert material filler, % by weight	AASHTO T111	30% min.	35%
Volatile Matter, % by weight	ASTM D6	3% max.	2.2%



## 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

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

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