



CONSEAL™
CONCRETE SEALANTS INC.

ConWrap™ CS-212

POLYOLEFIN BACKED EXTERIOR JOINT WRAP

Don't Just Seal It. ConSeal It!

Membrane Waterproofing and Exterior Joint Wrap for Precast Concrete Joints – Meets ASTM C877

APPLICATIONS

For joints in: Box Culverts, Underground Concrete Vaults, Segmented Bridge Structures, Wastewater Structures and Arched Bridge Structures, Manholes. **Not intended for use in expansion joints or joints that move.**



SEALING PROPERTIES

- Excellent resistance to puncture, tear and abrasions.
- Aggressively bonds to concrete and metal structures.
- Provides a permanent flexible water and soil barrier.
- Will not shrink, harden or oxidize upon aging.
- Available in numerous standard sizes.
 - **Standard thicknesses: 0.065" (1.65mm) and 0.100" (2.54mm)**
 - **Standard widths: 4", 6", 8", 9", 12", 24", 36" and 48"**
- Custom widths and lengths available upon request.
- 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.
- Meets ASTM C877 Type III, Type A Specification

PHYSICAL PROPERTIES & CHEMICAL COMPOSITION

Description	Spec	Required	CS-212
Color			Black
Backing Band:			
Thickness, in.		0.004	0.004
Tensile Strength, min, psi, mach. direction	D882	4,000	4,158
Elongation at break, min, %, mach. direction	D882	100	107
Tear resistance, min, psi, mach. Direction	D624	1500	1508
Water absorption, max,%	D570	0.01	0.01
Butyl Rubber Adhesive:			
Thickness, in, min		0.030	0.060
Ash-inert Matter, %	D1278	30-50	35-45
Volatiles, %	C681	0.1-2.0	0.8-1.2
Specific Gravity	D792	1.15-1.50	1.20-1.30
Adhesion, lb/in	D903		4.2
Penetration at 77°F	D217	50-100 dmm	65-75 dmm
Hydrocarbon blend content, % by weight	D4	50-70	52 min
Ductility, @77°F, min.	D113	5.0	12 cm
Softening point, °F, min	D36	320°F	335°F

INSTALLATION GUIDELINES

The following procedures should be followed for optimum sealant performance.

- Clean the surface with a brush and remove any dirt, debris, flashing, or concrete high points, which could keep ConWrap CS-212 from adhering to the concrete.
- 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.
- To apply ConWrap to a horizontal joint, begin by removing the release paper from the adhesive side and apply the ConWrap to the concrete.
- Continue around the joint by removing the release paper as the roll of ConWrap is unrolled. Press the wrap firmly by hand against the entire surface as it is applied to assure full contact.
- Where joining two sections, or where two ends meet together, provide an overlap of approximately 2" and firmly press the overlapping strip onto the end of the underlying strip to seal the joint.

Reference Installation Instructions for "ConWrap (Exterior Joint Wrap)" 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 manufacturers 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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CONCRETE SEALANTS, INC.
ISO 9001:2015 REGISTERED



CONSEAL™
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CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

APPLICATIONS

For self-sealing joints in: Manholes, Concrete Vaults, Septic Tanks, Concrete Pipe, Box Culverts, Utility Vaults, Burial Vaults, and Vertical Panel Structures.

SEALING PROPERTIES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to 48°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean, dry surfaces.
- Sealed Joints will not shrink, harden or oxide upon aging.
- 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.

HYDROSTATIC STRENGTH

ConSeal CS-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1 (Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)

SPECIFICATIONS

ConSeal CS-102 meets or exceeds the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C-990-91.



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CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

PHYSICAL PROPERTIES

	Spec	Required*	CS 102
Hydrocarbon blend content % by weight	ASTM D4 (mod.)	50% min.	51%
Inert mineral filler % by weight	AASHTO T111	30% min.	35%
Volatile Matter % by weight	ASTM D6	2% max.	1.2
Specific Gravity, 77°F	ASTM D71	1.15-1.50	1.25
Ductility, 77°F	ASTM D113	5.0 min.	10
Penetration, cone 77°F, 150 gm. 5 sec.	ASTM D217	50-100	55-60
Penetration, cone 32°F, 150 gm. 5 sec.	ASTM D217	40 mm	40-65
Flash Point, C.O.C., °F	ASTM D92	350°F min.	450°F
Fire point, C.O.C., °F	ASTM D92	375°F min.	475°F

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.
- Requirements of ASTM C-990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

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